

# AGRICULTURAL EXPERIMENT STATION

KANSAS STATE COLLEGE OF AGRICULTURE  
AND APPLIED SCIENCE

DEPARTMENT OF AGRONOMY

in cooperation with

DIVISION OF CEREAL CROPS AND DISEASES

BUREAU OF PLANT INDUSTRY, SOILS,

AND AGRICULTURAL ENGINEERING

Agricultural Research Administration

U. S. Department of Agriculture

---

## KANSAS CORN TESTS, 1944



PRINTED BY THE  
KANSAS STATE COLLEGE PRESS  
MANHATTAN, KANSAS

1945

## TABLE OF CONTENTS

---

SUMMARY .....	4
INTRODUCTION .....	5
MATERIAL AND METHODS .....	5
Corn Performance Tests .....	6
Experiment Field Tests .....	11
Cooperative Tests .....	11
STRAINS HIGHEST IN YIELD AND LODGING RESISTANCE .....	11
INTERPRETATION OF RESULTS .....	14
RESULTS .....	17
District 1 Northeastern section .....	17
District 2 Eastcentral section .....	21
District 3 Southeastern section .....	25
District 4 Northcentral section .....	28
District 5 Southcentral section .....	31
District 6 Northwestern section .....	34

## SUMMARY

This bulletin presents the results of corn tests conducted in Kansas during 1944 and summarizes the results of tests conducted during the past six years. The state has been divided into seven districts on the basis of soil, rainfall, and length of growing season. The 1944 Kansas corn testing program, outlined in Figure 1, included open-pollinated varieties and hybrids developed and distributed by federal, state and commercial agencies.

The entries in the 1944 trials together with the names and addresses of the commercial companies entering hybrids in the tests are reported in Table 1. Not all the Kansas hybrids are available commercially, but information on supplies of seed of Kansas 1583, Kansas 1585, Kansas 2234, U. S. 13, U. S. 35, Illinois 200, and K. I. H. 38 may be obtained by writing to The Kansas Crop Improvement Association, Manhattan, Kansas.

Data obtained in 1944 and summaries of those entries grown more than one year are reported in Tables 3 to 14. Commercially-available hybrids in the Experiment Field Tests or Corn Performance Tests that stood up as well as or better than the open-pollinated varieties and produced at least 10 percent more grain are listed on pages 12 and 13. Hybrids that yielded 10 percent more than the open-pollinated varieties in the Cooperative Corn Tests are listed on page 13.

Growers should carefully study the tests most nearly representing the location of their farm. Results obtained in several districts and over two or more years are more reliable than results obtained in only one district or one season.

More satisfactory results will usually be obtained if the corn acreage is planted to several tested hybrids of varying maturity instead of only one. The 1944 season was favorable for the full-season hybrids. This is not always true in Kansas and there probably will be less risk in corn production if several hybrids differing in maturity dates are grown together. Relative maturity is indicated in the tables by the moisture content of the grain at harvest. Using different hybrids in each planter box is usually a desirable practice. As one cannot predict whether early- or late-planted corn will yield best, the date of planting should be spread over a period of two or three weeks.

## KANSAS CORN TESTS, 1944<sup>1</sup>

A. L. Clapp<sup>2</sup>, E. G. Heyne<sup>3</sup>, C. D. Davis<sup>4</sup>, W. O. Scott<sup>5</sup>

### INTRODUCTION

The maximum production of agricultural products is still the goal for the Kansas farmer. We cannot afford, therefore, to waste our labor, soil moisture, and land on faulty crop production practices. There are several good practices that should be emphasized for optimum production such as good seedbed preparation, control of runoff water and soil erosion and crop rotations. If poor seed is planted, however, the benefits of even the best cultural practices may not be evident. Likewise, planting good seed does not assure good production unless the best cultural practices are used.

This bulletin summarizes the results of corn tests conducted in Kansas in 1944 and several previous years. This information should be of some help in determining the corn variety or hybrid to grow to obtain the greatest production from our Kansas corn fields. An important method of obtaining high production of corn is through more extensive use of desirable hybrids.

It has been estimated that about 47 percent of the Kansas corn acreage was planted to hybrid corn in 1944. The acreage of hybrid corn should be increased, but that increase should be made with **good** hybrids. Not all hybrids are adapted to Kansas growing conditions. In nine Corn Performance Tests conducted in eastern Kansas over a two-year period the best hybrid out-yielded the best open-pollinated variety 10.9 bushels per acre, **but** the lowest yielding hybrid in these same tests yielded 15.4 bushels per acre less than the best open-pollinated variety.

### MATERIALS AND METHODS

The corn tests in 1944 were similar to those tests of previous years. The state was divided into seven districts on the basis of soil, rainfall, and growing season. The Kansas corn-testing program, outlined in Figure 1, included hybrids and open-pollinated varieties developed and distributed by federal, state, and commercial agencies. These trials were grouped into three divisions **as follows**: (1) Experiment Field Tests, (2) Corn Performance Tests, and (3) Cooperative Corn Tests. The entries in these trials are listed in Table 1.

---

1. Department of Agronomy, Kansas Agricultural Experiment Station and the Division of Cereal Crops and Diseases, Bureau of Plant Industry, Soils, and Agricultural Engineering, Agricultural Research Administration, United States Department of Agriculture, cooperating. Contribution No. 367. Department of Agronomy.

2. Agronomist, Kansas Agricultural Experiment Station.

3. Associate agronomist, Division of Cereal Crops and Diseases, Bureau of Plant Industry, Soils and Agricultural Engineering.

4. Associate agronomist, Kansas Agricultural Experiment Station.

5. Assistant agronomist, Kansas Agricultural Experiment Station.

CORN PERFORMANCE TESTS

Corn Performance Tests were located in Districts 1, 2 and 3 of eastern Kansas in 1944 (Fig. 1). These trials were made possible through the cooperation of the following men on whose farms the tests were located: Jackson county, C. F. M. Stone, Whiting; Anderson county, Lloyd N. Jefferson, Garnett; Neosho county, R. A. Butler, Erie.

Seed for the performance tests was obtained from commercial sources whenever possible. Four seeds were dropped per hill with hand planters and these tests were thinned to two

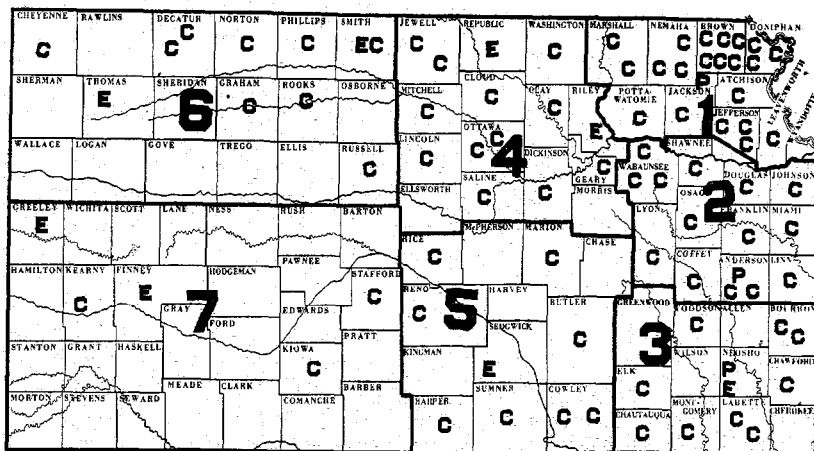


Fig. 1. Kansas corn testing program, 1944 indicating the seven districts and the counties in which corn tests were planted.

- E—Experiment Field Tests, data reported from three locations.
- P—Corn Performance Tests, three locations.
- C—Cooperative Corn Tests, 75 locations.

plants per hill. Plots were two rows wide and 10 hills long and those of each kind of corn were distributed at random within replications. In order to equalize the influence of soil and other differences, five replications were planted at each location, but the data from only four replications were used in computing the results in Anderson county, District No. 2, in 1944.

Each entry was assigned a code number by which it was known throughout the season. This code number was replaced by the original designation after the results had been computed. Location of fields, procedure, and climatic information are given in Table 2. Records on yield, lodging, stand, and dropped ears were obtained at harvest. Representative samples of all entries from two replications of each test were used to determine shelling percentage and moisture content. The moisture determinations were made on shelled corn with a Tag-Heppenstall Moisture Meter by the Agricultural Adjustment Administration Test-

TABLE 1. ENTRIES IN THE KANSAS CORN TESTS, 1944

Hybrid or varietal designation	Color of Grain	Entered by	Performance record in Table No.
<b>HYBRIDS</b>			
Cornhusker 30	Y	Cornhusker Hybrid Co., Fremont, Nebraska.	3, 5, 9
40	Y		3, 5, 9
50	Y		3, 5
123	Y	Kansas Agr. Expt. Sta. & U. S. D. A., Manhattan, Kansas.	9, 13
Edw. Funk 840	Y	Edw. H. Funk & Son, Kentland, Indiana	3, 5, 7, 9
1005	Y		5, 7
Embros 1001	Y	Ed. F. Mangelsdorf, Atchison, Kansas.	5, 7, 9
1020	Y		3, 5, 7, 9
1325	Y		5, 7, 9
Funk G-92	Y	Funk Bros. Seed Co., Bloomington, Ill.	3, 7
G-96	Y		3, 5, 7
G-97	Y		3, 5, 7, 13, 14
G-98	Y		3, 7
G-131	Y		3, 7
G-517W	W		3, 5
G-523W	W	Peppard Seed Co., Kansas City, Mo.	3, 5
G-80	Y		3, 4, 5, 7, 9, 10
G-88	Y		3, 5, 7, 9, 13
G-94	Y		3, 5, 7
G-135	Y		3, 5, 7
G-150	Y		3, 7, 9
G-702	Y		3, 5, 7
G-711	Y		3, 5, 6, 7, 8, 9, 11, 12, 13
G-723	Y		3, 5
Hendriks L	Y	J. A. Hendriks, Garnett, Kansas.	5, 6, 7, 8, 11, 12
L2	Y	Kans. Agr. Expt. Sta. & U. S. D. A., Manhattan, Kansas.	5, 7, 11
Henry Field 129-1	Y	Henry Field Seed Co., Shenandoah, Iowa.	3, 5, 9
129S	Y		3, 5
135	Y		3, 5, 7, 9

KANSAS CORN TESTS, 1944

TABLE 1 (Continued).

135L	Y		3, 5, 7
135R	Y		3, 5, 7
904	Y		3, 5, 9
Hy-Line M	Y	Swinger Hybrid Corn Co., Marshall, Mo.	3, 5, 9
M-1	Y		3, 5, 9
M-2	Y		3, 5, 9
Illinois 200	Y	Kans. Agr. Expt. Sta. & U. S. D. A., Manhattan, Kansas.	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14
Iowealth 25	Y	Michael-Leonard Co., Ames, Iowa.	3, 5, 9
25A	Y		3, 5, 9
29A	Y		3, 4, 5, 9
TX 1	Y		5, 6, 7, 8, 11
Jewett 6	Y	Jewett Hybrid Corn Co., Butler, Mo.	3, 5, 9
12	Y		3, 4, 5, 6, 7, 8, 9, 11
453	Y		3, 5, 7, 9
Kansas 3	W	Kans. Agr. Expt. Sta. & U. S. D. A., Manhattan, Kansas.	13
4	W		13
5	W		13
11	Y		9, 10, 11, 13, 14
15	Y		9
16	Y		3, 5, 7, 9, 11, 13
17	Y		11, 13
1104	Y		9, 13
1516	Y		9, 13
1517	Y		3, 5, 7, 9, 11
1582	Y		9, 13
1583	Y		3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14
1585	Y		3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14
1588	Y		11
1589	Y		13
1597	Y		9
1614	Y		13
1617	Y		9
1639	Y		9, 13
1643	Y		9, 13
1648	Y		9, 11, 13
1659	Y		3, 9, 13
1679	Y		9, 11
1715	Y		13

TABLE 1 (Continued).

1718	Y		13
1777	Y		11
1781	Y		3, 5, 7, 9, 11
1782	Y		3, 5, 7, 9, 11
1783	Y		3, 5, 7, 9, 11
1784	Y		3, 5, 7, 9, 11
2063	W		11
2216	W		9, 13
2225	W		13
2232	W		9, 11
2234	W		3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14
2242	W		13
2275	W		3, 5, 7, 9, 11, 13
2290	W		11
2292	W		11
2298	W		3, 5, 7, 9, 11
2299	W		3, 5, 7, 9, 11
2303	W		11
2304	W		11
2305	W		3, 5, 7, 9, 11
2306	W		11
Kellogg's KK-77	Y	Kellogg-Kelly Seed Co., St. Joseph, Missouri.	3, 5, 7, 9
KK-88	Y		3, 5, 7, 9
KK-99A	Y		3, 5, 7, 9
K. I. H. 38	Y	Kans. Agr. Expt. Sta. & U. S. D. A., Manhattan, Kansas.	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14
Maygold 39	Y	Earl May Seed Co., Shenandoah, Iowa.	3, 5, 7, 9
49	Y		3, 5, 7, 9
50	Y		3, 5, 7, 9
59	Y		3, 5, 7, 9
McCurdy 95M	Y	W. O. McCurdy & Sons, Fremont, Iowa.	7
112M	Y		3, 9
117M	Y		3, 5, 9
118M	Y		3, 9
120	Y		3, 7
123M	Y		5, 7
124M	Y		3, 5
130M	Y		5, 7
977M	Y		3, 5



TABLE 1 (Concluded).

Midwest 23	Y	Stephen Bros., Buckner, Mo.	3, 5, 7, 9
Mo. King 103	Y	Missouri Hybrid Corn Co., Fulton, Mo.	3, 5, 7, 9
Reid Nat'l 127	Y	Reid National Corn Company, Anamosa, Iowa.	3, 5, 9, 13
129	Y		3, 7, 9
130W	W		3, 5, 9
134	Y		3, 4, 5, 6, 7, 9
Reid Midland Hybrid	Y		5, 7, 8, 11
Pfister 164	Y	Pfister Associated Growers, El Paso, Illinois.	3, 5, 7, 9, 11, 13
380	Y		3, 5, 7, 9, 11, 13
1897	Y		3, 5, 7, 9, 11
4897	Y		3, 5, 7, 9, 11
Pioneer 300	Y	Garst & Thomas Hybrid Corn Co., Coon Rapids,	3, 4, 5, 7, 8, 9, 11, 13
332	Y	Iowa.	3, 5, 6, 7, 9, 13
339	Y		3, 5, 7, 9
Steckley 790	Y	Kans. Agr. Expt. Sta., Manhattan, Kansas.	4, 10
Trinoka 7	Y	Kans. Agr. Expt. Sta. & U. S. D. A., Manhattan, Kansas.	5, 6, 7, 8, 11, 12
U. S. 13	Y	Kans. Agr. Expt. Sta. & U. S. D. A., Manhattan,	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14
U. S. 35	Y	Kansas.	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14
<b>OPEN-POLLINATED VARIETIES</b>			
Hays Golden	Y	Kans. Agr. Expt. Sta. & U. S. D. A., Manhattan,	9, 10, 11, 12, 13, 14
Midland A	Y	Kansas.	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
Pride of Saline	W		3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14
Reid Yellow Dent	Y		3, 4, 9
Colby Yellow Cap	Y		10, 14

ing Laboratory, Manhattan, Kansas. The yields of the entries in each test are reported on a comparable basis of shelled grain, adjusted to a moisture content of 15.5 percent. Stand of each entry was reported as percentage of a perfect stand. The percentage of erect plants was determined from plant counts for each entry.

#### EXPERIMENT FIELD TESTS

Experiment fields are located throughout the state and corn tests were conducted at the northcentral and southcentral Experiment fields. The Wichita field is located in District 5, and the data reported were obtained by Walter Moore. The Smith Center field is in District 6, and the Belleville field in District 4, and the data reported were obtained by M. C. Axelton. These tests contained a number of commercially-available hybrids and are being reported for that reason. The trials were handled in a manner similar to that of the Corn Performance Tests except that three instead of five replications were planted.

#### COOPERATIVE CORN TESTS

Strip tests of corn varieties and hybrids were conducted by the Department of Agronomy of the Kansas Agricultural Experiment Station in cooperation with county agricultural agents, vocational teachers, and farmers. Seed for these tests was assembled and distributed by the Department of Agronomy through the Seed Distribution Project. The tests were planted and harvested by the farmer cooperator and his county agent or vocational teacher. The entries in these tests were planted in four-row plots of sufficient length to obtain reliable areas for harvesting. One thirty-fifth or one-seventieth of an acre of each strain was harvested to determine acre yields. The yields were calculated on an ear corn basis, using 70 pounds per bushel. When moisture tests were available the yield was calculated on the basis of 15.5 percent moisture. Seed of standard varieties was obtained from growers of certified seed. The hybrids included in the tests were nominated by commercial producers or experiment stations interested in them. The policy is to include only those hybrids in Cooperative Corn Tests which previously have shown superiority in the Corn Performance Tests.

#### STRAINS HIGHEST IN YIELD AND RESISTANCE TO LODGING

The data obtained are summarized in Tables 3 to 14 inclusive. As all hybrids are not equal in performance, an arbitrary measure has been set up to indicate the hybrids that have the best record. The commercially-available hybrids in the Experiment, Field Tests, or Corn Performance Tests that **stood up as well as or better** than the average of the adapted open-pollinated varieties and produced at least **10 percent more grain are as follows:**

**DISTRICT 1, NORTHEASTERN KANSAS**

- 1944: Funk G-88, K1585, Funk G-80, K2234.  
1943-1944, two-year average: Funk G-150, Funk G-80.  
1942-1944, three-year average: Funk G-80, Funk G-150, K2234, K1585.  
1941-1944, four-year average: K1585, K2234.  
1940-1944, five-year average: Funk G-94, K. I. H. 38, U. S. 35, U. S. 13.  
1939-1944, six-year average: Funk G-94, U. S. 35, U. S. 13.

**DISTRICT 2, EASTCENTRAL KANSAS**

- 1944: Kellogg's KK-99A, Edw. Funk 1005, Embro 1001.  
1943-1944, two-year average: Funk G-80, Iowealth TX 1.  
1942-1944, three-year average: Funk G-80, K1585.  
1941-1944, four-year average: K1585, Reid Midland hybrid.  
1940-1944, five-year average: Illinois 200.  
1939-1944, six-year average: Illinois 200, Funk G-94.

**DISTRICT 3, SOUTHEASTERN KANSAS**

- 1944: Jewett 453, Iowealth TX 1, K1583, Funk G-131, Funk G-80, Hendriks L2, Illinois 200, Edw. Funk 1005.  
1942 and 1944, two-year average: Iowealth TX 1, Funk G-88, K1583, Illinois 200, Funk G-135.  
1941-1942 and 1944, three-year average: Iowealth TX 1, Funk G-88, Funk G-150.  
1940-1942 and 1944, four-year average: Funk G-88.

**DISTRICT 4, NORTHCENTRAL KANSAS, BELLEVILLE FIELD**

- 1944: K2234, Embro 1325, K1583, Funk G-88, Reid National 129, Funk G-711, Jewett 453, K1585, Funk G-80, Jewett 12, Iowealth 25, Cornhusker 30, Missouri King 103, Funk G-150, K. I. H. 38, Embro 1001, Cornhusker 40, Pioneer 300, Maygold 50, Henry Field 135, Pioneer 339, Iowealth 25A, Pioneer 332, Pfister 164, Illinois 200, Kellogg's KK-88, Iowealth 29A, Reid National 130W, Midland A, Kellogg's KK-77, McCurdy 117M, Maygold 39, Midwest 23, U. S. 35.  
1943-1944, two-year average: K2234, K1583, Funk G-88, Missouri King 103, Pioneer 300, Illinois 200, Funk G-80, K1585, K. I. H. 38, Kellogg's KK-77, U. S. 13, Midland A, U. S. 35.  
1942-1944, three-year average: K2234, Funk G-88, Illinois 200, K. I. H. 38, Pioneer 300; Kellogg's KK-77, U. S. 13, U. S. 35.

**DISTRICT 5, SOUTHCENTRAL KANSAS, WICHITA FIELD**

- 1944: Funk G-711, K1585, Iowealth TX 1, K1583, Hendriks L2, K2234, Pride of Saline, Trinoka 7.

**1943-1944**, two-year average: Jewett 12, K2234, Hendriks L, K1585.

**1942-1944**, three-year average: K2234, K1585.

**1941-1944**, four-year average: None.

**DISTRICT 6, NORTHWESTERN KANSAS, SMITH CENTER FIELD**

**1944**: Funk G-88, Pfister 164, Funk G-711, Funk G-97, Pfister 380, K1583, Pride of Saline.

**1942 and 1944**, two-year average: K2234.

No records on erect plants were reported in the Cooperative Corn Tests. The following entries, however, produced at least 10 percent more grain than the average of the better adapted open-pollinated varieties:

**DISTRICT 1, NORTHEASTERN KANSAS**

**1944**: K2234, K1585, K1583, Reid National 134, U. S. 13.

**1943-1944**: K2234, K1585, K1583, Reid National 134.

**1941-1944**: Reid National 134, Illinois 200, K. I. H. 38.

**DISTRICT 2, EASTCENTRAL KANSAS**

**1944**: K2234, K1585, Hendriks L, K1583, Funk G-711.

**1943-1944**: K2234, K1585, Hendriks L.

**1942-1944**: None.

**DISTRICT 3, SOUTHEASTERN KANSAS**

**1944**: K2234, K1585, Trinoka 7.

**1943-1944**: K2234, K1585.

**1941-1944**: None.

**DISTRICT 4, NORTHCENTRAL KANSAS**

**1944**: K2234, K1585, Illinois 200, Funk G-80, K1583.

**1943-1944**: K2234, K1585, Funk G-80, K1583, Illinois 200, U. S. 13.

**1942-1944**: Illinois 200.

**DISTRICT 5, SOUTHCENTRAL KANSAS**

**1944**: K2234, K1585.

**1943-1944**: K2234, K1585, K1583, Hendriks L.

**1941-1944**: None.

**DISTRICT 6, NORTHWESTERN KANSAS**

**1944**: K2234, K1583, K1585, K. I. H. 38, U. S. 13, Illinois 200.

**1943-1944**: K2234.

**1942-1944**: None.

## INTERPRETATION OF RESULTS

It is not possible to determine the relative yielding ability with absolute accuracy, and small differences do not prove that one hybrid is better than another. Experience has shown that differences in yield may be expected among plots planted from the same seed. These differences may be due to such things as soil or stand variations, but they are reduced to a large extent by repeating or "replicating" the same corn several times in the same test. Even with replication, differences remain which are said to be due to chance. Methods are available for calculating an estimate of the errors due to chance.

A figure representing the estimated difference between varieties that is due to chance can be calculated. This figure called "significant difference" is given in many of the tables. In District 1, Table 3, the significant difference was calculated as 5.7 bushels. A hybrid was highest in yield in this district and produced 64.5 bushels per acre. Therefore, any entry that yielded 58.7 bushels or less in this test would be expected to yield significantly fewer bushels than the highest-yielding hybrid. Pride of Saline yielded an average of 51.4 bushels per acre in this test. Therefore, any strains of corn that yielded between 45.7 and 57.1 bushels (5.7 subtracted from 51.4 and 5.7 added to 51.4) would be considered similar in yielding ability to Pride of Saline in the 1944 District 1 test. In other words, any two entries in Table 3 must differ by at least 5.7 bushels before they may be considered as differing in yielding ability.

The results given in Tables 3 to 14 inclusive should be used as a basis in selecting corn hybrids for planting. The tests most nearly representing the location of the farm should be studied carefully. Two- or three-year averages are usually more reliable than results obtained in only one season. Seasonal conditions vary from year to year and cause a difference in the response of corn hybrids and varieties. A period of early prolonged drought and high temperature is likely to favor an early-maturing entry, whereas, a later-maturing strain often is able to take advantage of a longer growing season when the drought period does not occur until later. In general, the early to midseason entries were favored in 1939 and 1940, whereas the later-maturing strains tended to be most productive in 1938, and in the past four years.

In Kansas where periods of drought and heat are frequent most of the pollen may be killed and poor seed set result on those strains which happen to be in flower during one of these periods. Observations indicate that a variety in which there is considerable variation in date of pollination among individual plants is likely to yield more grain during seasons of adverse weather conditions than a more uniform variety.

Hybrid corn is well known and liked because of its uniformity. Because of its uniformity, it does have a shorter period

of pollination than open-pollinated varieties. Since there is less variation in date of pollination in hybrid corns it is advisable to plant in the same field two or more adapted hybrids differing in maturity. The approximate maturity of a hybrid (early, mid-season or late) can be estimated from the data on the moisture content of the grain at harvest. The early strains will tend to have a low percentage of moisture while the late strains a higher moisture content. Moisture percentages are given in many of the tables.

As it cannot be predicted at planting time whether an early, midseason or late-maturing hybrid will yield best, it may be desirable to use hybrids differing in maturity in each planter box, thus planting two hybrids in the same field. It is also recommended that the time of planting be spread over several weeks.

TABLE 2. LOCATION, PROCEDURE AND CLIMATIC INFORMATION ON CORN PERFORMANCE AND EXPERIMENT FIELD TESTS, 1944.

Cooperator	District 1 N. E. Kansas Chas. Stone Whiting	District 2 E. C. Kansas L. Jefferson Garnett	District 3 S. E. Kansas R. A. Butler Erie	District 4 N. C. Kansas M. C. Axelton Belleville	District 5 S. C. Kansas W. Moore Kingman	District 7 N. W. Kansas M. C. Axelton Belleville
No. of entries	82	82	69	81	43	39
No. of replications						
Planted	5	5	5	3	3	3
Harvested	5	4	5	3	3	3
Size of plot (hills)	2 x 10	2 x 10	2 x 10	2 x 20	2 x 23	2 x 18
Hill spacing inches	42 x 42	42 x 42	42 x 42	42 x 24	42 x 30	40 x 30
Rate of planting (kernels per hill)	4	4	4	2	2	2
Thinned to plants per hill	2	2	2	1	1	1
Date of planting	May 17	May 19	May 15	May 16	May 10-11	May 23
Date of harvest	Nov. 19	Oct. 24-26	Oct. 12-13	Nov. 6-13	Nov. 10	Nov. 14-17
Seedbed preparation	Disked & listed	Plowed, disked & harrowed	Plowed & harrowed	Plowed	Plowed	Plowed
Rainfall <sup>1</sup>						
May	7-4.89	5-3.42	3-1.49	3-3.12	4-2.96	7-4.83
June	6-3.48	8-6.91	5-3.73	11-5.53	7-2.21	6-5.89
July	6-2.32	4-3.61	5-3.27	10-4.79	9-4.32	7-1.74
Aug.	9-8.80	8-9.45	5-4.87	9-6.38	9-6.61	5-5.85
Sept.	3-1.08	2-2.75	1-6.00	4-1.68	3-1.91	2- .44
Total, 5 months	31-20.57	27-26.14	19-19.36	42-21.50	32-18.01	27-18.75

<sup>1</sup> First figure indicates number of rains, and second the total monthly rainfall in inches.

KANSAS CORN TESTS, 1944

TABLE 3. RESULTS, CORN PERFORMANCE TEST, DISTRICT 1, NORTH-EASTERN KANSAS.

Rank in yield	Hybrid or variety	Acre yield		Erect plants		Stand	Moisture	Shelling	Ears per cwt.
		Actual	Relative*	Actual	Relative*				
		Bu.	Pct.	Pct.	Pct.				
<b>ONE-YEAR RESULTS, 1944</b>									
1	Funk G-88	64.5	125	82	103	99	15.7	85.9	156
2	Funk G-711	61.2	118	74	93	98	17.4	85.0	146
3	Funk G-523W	61.0	118	95	119	100	17.8	81.3	163
4	Jewett 12	58.9	114	77	96	97	14.3	85.5	179
Differences in yield of less than 5.7 bushels an acre are not significant in this test.									
5	Kansas 1585	58.6	113	93	116	96	17.5	84.4	168
6	Funk G-80	57.3	111	97	121	98	16.1	85.0	165
7	Kansas 2234	57.0	110	94	118	98	16.4	80.9	171
8	Kansas 2305	56.7	110	99	124	96	14.6	83.7	170
9	Cornhusker 40	55.9	108	97	121	95	16.3	84.3	183
10	Jewett 453	55.6	108	89	111	96	16.6	82.5	188
11	Kansas 16	55.6	108	76	95	98	19.8	82.8	181
12	Funk G-135	55.3	107	90	113	99	14.7	85.4	176
13	Henry Field 135	55.3	107	83	104	99	14.7	85.4	190
14	Kansas 2275	55.2	107	97	121	99	13.6	84.1	211
15	Kansas 1784	55.0	106	98	123	97	12.8	84.3	193
16	Midwest 23	54.3	105	92	115	98	13.5	84.8	201
17	Illinois 200	54.1	105	93	116	99	13.3	84.7	189
18	Kansas 2299	53.8	104	96	120	96	14.3	82.7	180
19	Funk G-150	53.8	104	84	105	95	14.7	82.7	208
20	Kansas 2298	53.5	104	98	123	93	13.7	80.9	183
21	Iowearth 25	53.2	103	95	119	95	13.1	83.5	209
22	Funk G-98	53.2	103	85	106	97	13.1	81.1	200
23	Kansas 1517	53.0	103	85	106	85	19.9	82.7	153
24	Reid Nat'l 130W	52.8	102	96	120	99	16.3	83.1	181
25	Reid Yellow Dent	52.5	102	77	96	94	15.2	83.2	193
26	Jewett 6	52.3	101	78	98	92	14.9	85.2	164
27	Reid Nat'l 127	52.1	101	96	120	97	14.4	89.5	187
28	Kansas 1533	52.1	101	87	109	94	17.7	83.9	198
29	Henry Field 135L	52.0	101	89	111	99	13.8	83.9	194
30	Funk G-92	52.0	101	86	108	98	13.3	84.9	213
31	Cornhusker 30	51.9	100	96	120	95	14.1	85.1	196
32	Kansas 1783	51.9	100	93	116	98	12.8	82.9	205
33	K. I. H. 38	51.8	100	83	104	94	13.2	83.8	192
34	Funk G-131	51.7	100	84	105	97	15.2	83.2	203
35	Midland A.	51.6	100	87	109	97	16.7	85.0	183
36	Funk G-96	51.5	100	95	119	99	18.0	83.3	243
37	Pride of Saline	51.4	99	79	99	98	15.4	80.9	179
38	Funk G-94	51.0	99	96	120	98	13.3	85.6	212
39	Funk G-702	50.9	99	87	109	95	16.3	83.5	187
40	Kansas 1782	50.3	97	94	118	95	12.9	84.0	209
41	Mo. King 103	50.2	97	91	114	95	13.5	83.0	186
42	Funk G-97	50.1	97	89	111	87	13.7	84.3	203
43	Reid Nat'l 129	50.0	97	95	119	96	13.6	84.6	194
44	Pfister 1897	49.6	96	95	119	93	13.2	84.5	213
45	Pioneer 339	49.3	95	99	124	96	12.9	86.1	210
46	Kansas 1659	49.2	95	96	120	98	12.5	84.6	208
47	Pfister 4897	49.2	95	95	119	96	12.9	86.9	192
48	U. S. 35	49.1	95	95	119	97	12.8	85.1	218
49	U. S. 13	49.1	95	93	116	98	13.3	85.6	229
50	Hylite M-1	48.5	94	94	118	93	13.5	83.8	195
51	Kansas 1781	48.4	94	97	121	97	13.1	84.7	207
52	McCurdy 118M	48.4	94	94	118	98	13.0	86.0	218
53	McCurdy 117M	48.2	93	95	119	96	13.5	85.3	221
54	Maygold 59	47.6	92	96	120	91	13.0	86.7	173
55	McCurdy 112M	47.3	92	96	120	98	12.9	84.9	216
56	Henry Field 135R	47.3	92	93	116	94	13.3	84.9	250
57	Maygold 49	47.3	92	91	114	94	13.0	85.2	215
58	Iowearth 29A	47.2	91	95	119	97	13.1	85.6	227
59	Pioneer 332	47.1	91	97	121	99	13.0	85.8	227
60	Kellogg's K.K.-88	47.1	91	92	115	92	14.0	83.8	231

\*Performance of entry relative to the average of open-pollinated varieties.



TABLE 3. RESULTS, CORN PERFORMANCE TEST, DISTRICT 1, NORTH-EASTERN KANSAS (Continued).

Rank in yield	Hybrid or variety	Acre yield		Erect plants		Stand	Moisture	Shelling	Burs per cwt.
		Actual	Relative*	Actual	Relative*				
		Bu.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	No.
61	Kellogg's KK-77	47.0	91	90	113	95	12.9	85.5	197
62	Pioneer 300	46.8	91	95	119	98	13.1	83.9	223
63	Cornhusker 50	46.8	91	94	118	95	13.7	86.4	206
64	Maygold 39	46.7	90	94	118	96	13.3	83.3	204
65	Pfister 164	46.6	90	98	123	96	13.5	83.9	192
66	Hyline M	46.5	90	96	120	94	13.3	82.9	225
67	Hyline M-2	46.2	89	98	123	96	13.3	84.5	236
68	McCurdy 120	45.7	88	94	118	93	12.8	85.0	233
69	Kellogg's KK-99A	45.4	88	89	111	96	12.9	83.6	218
70	Edw. Funk 840	45.1	87	94	118	95	13.5	85.1	219
71	McCurdy 124M	45.1	87	92	115	91	12.8	84.5	221
72	Funk G-517W	45.0	87	96	120	94	13.3	79.5	162
73	Embro 1020	44.9	87	93	116	96	12.7	84.4	195
74	Pfister 330	44.1	85	94	118	98	13.2	82.5	231
75	Henry Field No. 904	43.9	85	93	116	93	12.8	82.2	223
76	Iowearth 25A	43.7	85	93	116	92	13.7	84.2	213
77	Henry Field 129S	43.5	84	84	105	97	12.6	83.9	234
78	Henry Field 129-1	43.0	83	94	118	96	12.9	83.6	244
79	McCurdy 977M	41.3	80	93	116	92	12.9	83.5	245
80	Funk G-723	40.8	79	71	89	99	19.1	81.4	236
81	Reid Nat'l 134	37.4	72	85	106	93	12.7	85.0	272
82	Maygold 50	36.1	70	96	120	94	13.0	83.6	189
	Av. of 82 entries	50.2		91		96	14.2	84.1	203
	Av. of 2 adapted open-pollinated varieties	51.7	100	80	100	97	15.7	82.5	185
	<b>Av. of 79 hybrids</b>	<b>50.1</b>	<b>97</b>	<b>92</b>	<b>115</b>	<b>96</b>	<b>14.1</b>	<b>84.2</b>	<b>204</b>
<b>TWO-YEAR AVERAGE, 1943-1944</b>									
1	Funk G-711	65.8	115	84	97	90	18.9	84.2	160
2	Jewett 12	65.7	115	80	92	96	15.5	83.5	174
3	Funk G-150	64.5	113	87	100	97	14.7	82.7	203
4	Funk G-80	63.7	112	97	111	95	16.3	84.6	158
5	Kansas 2234	62.3	109	96	110	89	18.1	79.1	203
6	Kansas 2275	62.2	109	99	114	97	15.7	82.6	162
7	Kansas 16	62.2	109	84	97	98	19.9	81.6	169
8	Kansas 1585	62.0	109	96	110	90	17.6	82.6	167
9	Jewett 6	61.9	108	80	92	95	16.1	83.3	158
10	Funk G-94	59.2	104	97	111	95	13.5	85.0	195
11	Kansas 1583	59.0	103	91	105	89	19.7	82.8	162
12	U. S. 13	58.0	102	96	110	96	13.3	85.2	201
13	Pioneer 300	57.8	101	97	111	97	13.5	84.1	204
14	Hyline M-1	57.8	101	96	110	95	14.0	83.5	177
15	Pride of Saline	57.8	101	85	98	98	16.5	79.8	169
16	K. I. H. 38	57.2	100	85	98	93	13.2	84.5	189
17	Reid Yellow Dent	57.1	100	84	97	94	15.5	83.2	175
18	U. S. 35	57.0	100	95	109	95	13.1	84.9	193
19	Midland A	56.4	99	91	105	97	13.1	82.8	173
20	Iowearth 25	55.4	97	97	111	89	14.0	83.7	197
21	Midwest 23	55.3	97	93	107	91	14.8	82.4	189
22	Embro 1020	54.8	96	96	110	96	13.6	84.2	177
23	Reid Nat'l 129	54.4	95	96	110	92	14.7	83.8	194
24	Mo. King 103	53.5	94	94	108	87	14.0	82.9	166
25	Kansas 1659	53.4	94	97	111	90	13.1	84.6	186
26	Illinois 200	53.1	93	94	108	90	14.9	83.2	181
27	Kellogg's KK-88	53.1	93	94	108	88	14.1	83.3	207
28	Henry Field 135R	52.7	92	96	110	92	13.5	84.5	229
29	McCurdy 118M	52.3	92	96	110	91	12.8	85.2	212
30	Kellogg's KK-77	51.8	91	93	107	88	13.0	85.1	193
31	Maygold 39	50.8	89	97	111	88	13.6	83.5	179
32	Maygold 49	50.7	89	92	106	87	13.0	85.1	197
33	McCurdy 124M	50.5	88	96	110	88	12.6	84.1	197
34	Henry Field 129-1	49.3	86	95	109	89	12.8	84.2	211

\*Performance of entry relative to the average of open-pollinated varieties.

KANSAS CORN TESTS, 1944

TABLE 3. RESULTS, CORN PERFORMANCE TEST, DISTRICT 1, NORTH-EASTERN KANSAS (Continued).

Rank in yield	Hybrid or variety	Acre yield		Erect plants		Stand	Moisture	Shelling	Ears per cwt.
		Actual	Relative*	Actual	Relative*				
35	Iowealth 29A	49.2	86	96	110	87	14.2	84.2	202
33	Iowealth 25A	48.9	86	91	105	87	15.5	84.1	204
33	Maygold 59	48.2	84	98	113	82	13.1	83.8	199
33	McCurdy 977M	47.9	84	96	110	82	12.9	84.5	230
32	Reid Nat'l 134	47.1	82	89	102	83	14.2	85.0	226
Av. of 39 entries		55.9		93		92	14.8	83.7	189
Av. of 3 adapted open-pollinated varieties		57.1	100	87	100	96	16.7	81.9	174
<b>Av. of 36 hybrids</b>		<b>55.8</b>	<b>98</b>	<b>93</b>	<b>107</b>	<b>91</b>	<b>14.7</b>	<b>83.8</b>	<b>190</b>
<b>THREE-YEAR AVERAGE, 1942-1943-1944</b>									
1	Funk G-80	67.4	113	95	114	89	17.3	83.6	
2	Funk G-150	67.4	113	85	102	91	15.4	82.1	
3	Kansas 2234	67.2	112	94	113	86	18.3	77.6	
4	Kansas 1585	66.3	111	94	113	81	18.0	82.2	
5	Jewett 12	66.0	110	80	96	87	16.1	82.5	
6	Kansas 1583	62.1	104	92	111	81	18.7	81.3	
7	Funk G-94	61.0	102	93	112	87	14.2	84.4	
8	Pride of Saline	60.6	101	81	98	91	17.4	73.8	
9	Midland A	60.4	101	89	107	90	13.5	81.8	
10	K. I. H. 38	60.2	101	82	99	87	14.1	84.1	
11	Midwest 23	59.4	99	93	112	86	15.2	82.2	
12	U. S. 35	59.4	99	93	112	88	13.5	84.7	
13	Pioneer 300	59.3	99	97	117	90	14.2	83.5	
14	Illinois 200	59.3	99	91	110	86	15.5	82.6	
15	U. S. 13	59.1	99	93	112	86	14.2	84.5	
16	Mo. King 103	58.6	98	92	111	82	14.9	82.2	
17	Reid Yellow Dent	58.6	98	79	95	86	16.5	82.1	
18	Reid Nat'l 129	57.1	95	91	110	84	14.3	83.2	
19	McCurdy 118M	57.0	95	93	112	85	13.2	84.8	
20	Kellogg's KK-77	56.2	94	90	108	82	13.4	84.5	
21	Reid Nat'l 134	55.4	92	87	105	84	16.4	83.7	
22	Iowealth 25A	55.2	92	89	107	82	16.4	83.1	
23	Maygold 49	55.0	92	92	111	82	13.5	84.8	
24	McCurdy 124M	54.0	90	93	112	81	13.0	84.0	
25	Maygold 59	51.1	85	94	113	78	13.9	84.9	
Av. of 25 entries		59.7		90		85	15.5	82.9	
Av. of 3 adapted open-pollinated varieties		59.9	100	83	100	89	17.5	80.9	
<b>Av. of 22 hybrids</b>		<b>59.7</b>	<b>100</b>	<b>91</b>	<b>110</b>	<b>85</b>	<b>15.2</b>	<b>83.2</b>	
<b>FOUR-YEAR AVERAGE, 1941-1942-1943-1944</b>									
1	Jewett 12	65.3	115	73	96	84	16.4	82.4	†175
2	Kansas 1585	62.7	111	85	112	83	17.9	81.9	179
3	Kansas 2234	62.3	110	81	107	85	18.9	77.3	208
4	Funk G-94	60.2	106	89	116	84	14.8	84.5	196
5	K. I. H. 38	60.0	106	78	103	85	14.7	84.2	195
6	U. S. 13	59.8	106	83	110	84	14.6	84.7	206
7	U. S. 35	59.6	105	89	118	85	14.1	84.9	195
8	Midland A	57.9	102	81	107	88	18.7	81.6	187
9	Pioneer 300	57.8	102	91	120	87	14.5	83.8	208
10	Pride of Saline	57.5	102	74	97	89	17.6	78.8	186
11	Illinois 200	56.2	99	85	112	83	16.0	82.6	201
12	Kellogg's KK-77	55.8	99	87	114	80	14.4	84.6	197
13	McCurdy 118M	55.6	98	89	118	83	13.8	84.8	217
14	McCurdy 124M	54.8	97	87	115	81	13.7	84.2	199
15	Reid Yellow Dent	54.4	96	74	97	84	16.8	82.4	198
16	Reid Nat'l 134	52.6	93	77	101	84	16.9	83.1	233
Av. of 16 entries		58.3		83		84	15.9	82.9	199
Av. of 3 adapted open-pollinated varieties		56.6	100	76	100	87	17.7	81.0	190
<b>Av. of 13 hybrids</b>		<b>58.7</b>	<b>104</b>	<b>84</b>	<b>111</b>	<b>85</b>	<b>15.4</b>	<b>83.3</b>	<b>201</b>

\*Performance of entry relative to the average of open-pollinated varieties.  
†This column—average three years, 1941-1943-1944.

TABLE 3. RESULTS, CORN PERFORMANCE TEST, DISTRICT 1, NORTH-EASTERN KANSAS (Concluded).

Rank in yield	Hybrid or variety	Acre yield		Erect plants		Stand	Moisture	Shelling	Ears per cwt.
		Actual	Relative*	Actual	Relative*				
		Bu.	Pct.	Pct.	Pct.				
<b>FIVE-YEAR AVERAGE, 1940-1941-1942-1943-1944</b>									
1	Funk G-94	59.3	114	89	117	85	14.6	83.9	157
2	K. I. H. 38	58.9	113	80	105	85	14.4	83.6	159
3	U. S. 35	58.5	112	90	118	87	14.0	84.3	162
4	U. S. 13	57.4	110	85	112	85	14.5	83.1	179
5	McCurdy 118M	56.0	107	90	118	85	13.9	84.5	173
6	Illinois 200	55.6	107	85	112	85	15.8	82.1	166
7	Kellogg's KK-77	54.7	105	88	116	81	14.3	83.6	162
8	Pride of Saline	54.3	104	74	97	89	15.4	78.1	159
9	Midland A	52.3	100	82	108	88	18.7	80.8	164
10	Reid Nat'l 134	52.3	100	78	103	84	16.6	82.5	186
11	Reid Yellow Dent	49.7	95	73	96	85	16.7	82.5	174
	Av. of 11 entries	55.4		83		85	15.4	82.6	168
	Av. of 3 adapted open-pollinated varieties	52.1	100	76	100	87	16.9	80.4	166.
	<b>Av. of 8 hybrids</b>	<b>56.6</b>	<b>109</b>	<b>86</b>	<b>113</b>	<b>85</b>	<b>14.8</b>	<b>83.5</b>	<b>168</b>
<b>SIX-YEAR AVERAGE, 1939-1940-1941-1942-1943-1944</b>									
1	Funk G-94	63.2	118	89	117	85	13.8	83.8	\$193
2	U. S. 35	62.8	117	89	117	88	13.2	84.1	199
3	U. S. 13	61.5	115	85	112	86	13.8	83.1	217
4	Kellogg's KK-77	57.9	108	89	117	82	13.5	83.4	200
5	Pride of Saline	56.2	105	74	97	89	16.3	78.5	198
6	Midland A	52.6	98	82	108	87	17.6	81.0	206
7	Reid Yellow Dent	51.7	97	72	95	86	15.5	82.6	217
	Av. of 7 entries	58.0		83		86	14.8	82.4	204
	Av. of 3 adapted open-pollinated varieties	53.5	100	76	100	87	16.5	80.7	207
	<b>Av. of 4 hybrids</b>	<b>61.4</b>	<b>115</b>	<b>88</b>	<b>116</b>	<b>85</b>	<b>13.6</b>	<b>83.6</b>	<b>202</b>

\*This column—average four years, 1940-1941-1943-1944.

†This column—average five years, 1939-1940-1941-1943-1944.

TABLE 4. RESULTS, COOPERATIVE TESTS, DISTRICT 1, NORTHEASTERN KANSAS.

Hybrid or variety	1944 17 tests		1943-1944 31 tests		1941-1944 83 tests	
	Yield	Rank	Yield	Rank	Yield	Rank
	Bu.		Bu.		Bu.	
Kansas 2234	71.3	1	72.3	1	.....	.....
Kansas 1585	67.1	2	65.3	3	.....	.....
Kansas 1583	65.4	3	66.1	2	.....	.....
Reid National 134	63.9	4	64.3	4	60.1	1
U. S. 13	63.1	5	61.4	7	57.9	4
Funk G-80	62.4	6	.....	.....	.....	.....
K. I. H. 38	62.0	7	62.5	6	58.9	3
Illinois 200	61.9	8	62.7	5	59.2	2
Pioneer 300	58.5	9	.....	.....	.....	.....
Midland A	57.8	10	58.7	9	.....	.....
Pride of Saline	57.8	10	58.8	8	55.3	5
Jewett 12	56.1	12	57.5	11	.....	.....
Steckley 790	56.1	12	58.1	10	.....	.....
U. S. 35	56.0	14	55.6	12	54.3	6
Iowath 29A	55.8	15	.....	.....	.....	.....
Reid Yellow Dent	55.0	16	55.8	13	51.2	7

KANSAS CORN TESTS, 1944

TABLE 5. RESULTS, CORN PERFORMANCE TEST, DISTRICT 2, EAST-CENTRAL KANSAS.

Rank in yield	Hybrid or variety	Acre yield		Erect plants		Stand	Moisture	Shelling	Ears per cwt.
		Actual	Relative*	Actual	Relative*				
		Bu.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	No.
<b>ONE-YEAR RESULTS, 1944</b>									
1	Kellogg's KK-88	65.9	132	55	87	94	14.7	83.9	160
2	Kansas 2275	62.7	126	90	143	93	16.0	84.9	160
3	Kellogg's KK-99A	60.3	121	64	102	88	12.5	84.9	193
4	Edw. Funk 1005	59.4	119	67	106	96	17.8	82.3	199
5	Midwest 23	56.7	114	58	92	96	18.7	82.3	135
6	Kansas 1517	56.3	113	71	113	92	19.1	82.3	137
7	Kansas 1783	55.7	112	65	103	93	12.9	82.3	172
8	Embro 1001	55.4	111	63	103	93	14.8	82.3	166
9	Jewett 453	55.1	110	48	87	100	13.3	82.3	168
10	Kansas 1781	54.7	110	79	125	96	12.7	86.4	159
11	Funk G-88	54.5	109	66	105	97	12.1	83.8	173
12	Funk G-711	53.8	108	54	86	96	17.4	83.8	158
13	Kansas 2298	53.2	107	75	119	92	15.2	82.3	168
14	Pioneer 339	53.1	106	54	86	94	12.5	86.4	176
15	Funk G-80	53.0	106	71	113	96	17.2	83.9	137
16	Illinois 200	53.0	106	68	108	83	15.7	84.1	159
17	Iowearth TX I	53.0	106	67	106	97	17.9	85.0	202
18	K. I. H. 38	53.0	106	33	52	91	13.8	86.2	189
19	Pride of Saline	52.9	106	56	89	98	16.7	81.7	179
20	U. S. 35	52.8	106	63	100	91	12.3	86.7	175
21	Hyline M-1	52.5	105	51	81	90	16.4	83.6	150
22	Reid-Midland Hybr.	52.4	105	56	89	89	13.8	83.8	184
23	Hendriks L	52.3	105	65	103	91	15.2	85.0	199
24	Funk G-96	52.0	104	68	108	92	13.6	83.5	189
25	Hendriks L2	51.7	104	56	89	98	18.8	82.7	180
26	Hyline M-2	51.6	103	75	119	91	13.7	88.0	200
27	Cornhusker 30	51.3	103	60	95	98	12.7	85.0	252
28	Pfister 164	50.9	102	69	110	90	14.8	85.5	154
Differences in yield of less than 15.4 bushels an acre are not significant in this test.									
29	McCurdy 977M	50.0	100	74	117	98	13.4	86.4	207
30	Maygold 39	49.9	100	64	102	91	13.2	87.0	190
31	Pioneer 300	49.9	100	37	59	92	12.7	86.0	198
32	Cornhusker 40	49.8	100	84	133	95	17.6	82.9	195
33	Iowearth 25	49.8	100	59	94	95	12.2	86.2	256
34	Pfister 4897	49.3	99	55	87	95	12.5	85.9	210
35	Embro 1020	49.1	98	81	129	88	17.0	84.6	137
36	Funk G-94	49.1	98	66	105	91	13.1	86.0	194
37	Henry Field 135	49.0	98	65	103	98	17.2	83.7	178
38	Edw. Funk 840	49.0	98	62	98	96	13.9	85.1	175
39	Kansas 1585	48.6	97	74	117	96	16.9	82.0	238
40	Funk G-135	48.5	97	29	46	96	16.0	83.9	204
41	Reid Nat'l. 130 W	48.3	97	83	132	81	17.0	81.5	146
42	Pioneer 332	48.1	96	44	70	95	13.4	86.4	187
43	Maygold 49	47.9	96	65	103	95	12.7	86.5	171
44	McCurdy 124M	47.8	96	77	122	96	12.1	87.2	256
45	Kansas 2305	47.8	96	74	117	93	14.8	82.1	203
46	Kansas 1583	47.6	95	79	125	94	18.7	82.4	200
47	Pfister 1897	47.3	95	63	100	96	11.8	86.0	217
48	Iowearth 25A	47.2	95	58	92	96	12.9	84.8	186
49	McCurdy 117M	47.1	94	74	117	84	14.1	87.3	193
50	Jewett 12	47.0	94	58	92	93	17.2	82.6	178
51	Midland A	46.9	94	71	112	96	18.2	81.3	192
52	Maygold 39	46.9	94	51	81	94	13.8	85.6	185
53	Mo. King 103	46.8	94	54	86	91	14.0	83.7	160
54	Embro 1325	46.7	94	67	106	88	18.3	84.0	190
55	Kellogg's KK-77	46.1	92	49	78	88	13.3	85.8	181
56	McCurdy 130M	45.5	91	65	103	93	12.8	84.2	214
57	Henry Field 135R	45.5	91	53	84	91	13.3	85.7	278
58	Henry Field 135L	45.4	91	57	91	98	13.8	85.4	175
59	Iowearth 29A	45.2	91	64	102	87	12.9	84.8	215
60	Maygold 50	45.0	90	85	135	83	12.5	85.0	167

\*Performance of entry relative to the average of open-pollinated varieties.

TABLE 5. RESULTS, CORN PERFORMANCE TEST, DISTRICT 2, EAST-CENTRAL KANSAS (Continued).

Rank in yield	Hybrid or variety	Acre yield		Erect plants		Stand	Moisture	Shelling	Ears per cwt.
		Actual	Relative*	Actual	Relative*				
61	Cornhusker 50	44.5	89	54	86	95	13.9	87.0	203
62	Kansas 1782	44.4	89	49	78	88	12.9	84.2	203
63	Hyliline M	44.3	89	60	133	84	14.7	85.4	238
64	Funk G-517W	44.0	88	85	133	84	17.0	78.0	177
65	McCurdy 123M	43.9	88	74	117	83	12.5	86.1	230
66	Pfister 380	43.9	88	59	94	83	12.1	86.9	217
67	Funk G-702	43.4	87	64	102	79	17.9	82.7	178
68	Kansas 2234	43.2	87	76	121	96	14.4	82.0	237
69	Funk G-97	42.3	85	41	65	83	12.7	85.4	272
70	Jewett 6	42.0	84	59	94	80	16.5	82.7	167
71	Kansas 1784	41.7	84	58	92	90	12.8	86.1	210
72	Reid Nat'l. 134	41.6	83	77	122	86	12.9	84.1	190
73	Henry Field 129-1	40.4	81	71	113	87	17.8	83.3	242
74	Trinoka 7	40.0	80	37	59	91	16.8	83.5	191
75	Kansas 16	39.7	80	46	73	87	20.8	83.3	230
76	Henry Field 904	39.3	79	66	105	90	12.5	83.6	264
77	Funk G-523W	38.4	77	74	117	98	15.5	77.9	205
78	U. S. 13	38.3	77	62	98	93	12.5	84.5	253
79	Reid Nat'l. 127	37.4	75	69	110	91	12.8	84.6	224
80	Henry Field 129S	37.4	75	40	63	81	12.9	85.3	276
81	Funk G-723	36.0	72	44	70	94	19.6	79.0	250
82	Kansas 2299	34.3	69	72	114	96	15.7	82.1	265
	Av. of 82 entries	48.3		63		92	14.8	84.3	196
	Av. of 2 adapted open-pollinated varieties	49.9	100	64	100	97	17.5	81.5	186
	<b>Av. of 80 hybrids</b>	<b>48.2</b>	<b>97</b>	<b>63</b>	<b>98</b>	<b>91</b>	<b>14.8</b>	<b>84.4</b>	<b>197</b>
<b>TWO-YEAR AVERAGE, 1943-1944</b>									
1	Kellogg's KK-83	65.7	118	76	94	92	13.6	83.4	172
2	Kansas 2275	64.3	115	95	117	94	15.0	83.8	177
3	Reid Midland Hybr.	63.8	114	77	95	92	13.8	83.7	185
4	Funk G-80	63.4	113	85	105	95	15.0	83.7	151
5	Iowearth TX I	62.6	112	83	102	93	16.4	84.5	196
6	Hyliline M-1	61.1	109	75	93	92	14.4	83.2	180
7	Hendriks L	61.1	109	82	101	93	14.6	83.8	182
8	U. S. 35	60.5	108	81	100	93	12.2	85.7	178
9	Illinois 200	60.2	108	84	104	87	14.2	83.4	174
10	Hendriks L2	60.1	108	77	95	97	16.7	83.0	173
11	Midwest 23	60.0	107	79	98	93	13.2	84.0	180
12	Kansas 1585	59.6	107	87	107	93	15.2	83.2	204
13	K. I. H. 38	59.6	107	66	81	92	13.1	85.2	195
14	Jewett 12	58.7	105	77	95	93	15.0	82.9	173
15	Funk G-94	58.6	105	83	103	90	12.9	85.4	204
16	Pioneer 300	58.4	104	69	85	94	12.7	87.4	197
17	Pride of Saline	58.2	104	77	95	97	15.4	81.6	186
18	Funk G-88	58.1	104	82	101	94	13.4	83.9	175
19	McCurdy 977M	57.7	103	86	106	93	13.1	85.0	204
20	Kansas 1583	57.5	103	89	110	92	17.0	82.7	202
21	McCurdy 124M	57.2	102	88	109	94	12.3	85.2	220
22	Mo. King 103	56.3	101	77	95	91	13.3	82.9	163
23	Kansas 2234	55.7	100	88	109	95	14.9	82.5	216
24	Iowearth 29A	55.7	100	82	101	90	12.6	84.2	205
25	Iowearth 25A	55.4	99	79	98	92	13.4	84.0	188
26	Kellogg's KK-77	55.2	99	75	93	87	12.9	84.6	181
27	Maygold 39	54.9	98	75	93	94	14.1	84.5	174
28	Embro 1020	54.8	98	91	112	88	14.9	84.1	162
29	Maygold 49	54.8	98	82	101	92	12.6	85.4	175
30	Henry Field 135R	54.4	97	77	95	90	13.0	84.9	237
31	Reid Nat'l. 134	54.3	97	88	109	90	13.2	84.0	197
32	Maygold 59	54.1	97	82	101	88	12.9	85.5	199
33	Hyliline M	53.9	96	79	98	85	13.7	84.4	220
34	Kansas 16	53.9	96	73	89	90	18.5	83.9	198
35	Midland A	53.6	96	85	105	95	16.5	82.3	184

\*Performance of entry relative to the average of open-pollinated varieties.

KANSAS CORN TESTS, 1944

TABLE 5. RESULTS, CORN PERFORMANCE TEST, DISTRICT 2, EAST-CENTRAL KANSAS (Continued).

Rank in yield	Hybrid or variety	Acre yield		Erect plants		Stand	Moisture	Shelling	Ears per cwt.
		Actual	Relative*	Actual	Relative*				
		Bu.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	No.
36	U. S. 13	53.6	96	81	100	94	12.6	84.0	212
37	Jewett 6	52.4	94	78	94	86	14.9	82.8	178
38	McCurdy 130M	50.0	89	83	102	89	12.5	83.4	185
39	McCurdy 123M	49.6	89	87	107	91	12.5	84.2	208
40	Henry Field 129-1	45.4	81	85	105	85	15.1	83.4	217
	Av. of 40 entries	57.1		81		92	14.1	84.0	190
	Av. of 2 adapted open-pollinated varieties	55.9	100	81	100	96	16.0	82.0	185
	<b>Av. of 38 hybrids</b>	<b>57.2</b>	<b>102</b>	<b>81</b>	<b>100</b>	<b>91</b>	<b>14.0</b>	<b>84.1</b>	<b>190</b>
<b>THREE-YEAR AVERAGE, 1942-1943-1944</b>									
1	Funk G-80	68.1	111	90	105	93	14.6	84.1	
2	Kansas 1585	67.7	110	90	105	93	15.2	83.0	
3	Reid Midland Hybr.	67.4	110	84	98	89	14.7	83.3	
4	Illinois 200	65.5	107	89	103	88	14.0	83.7	
5	Iowearth TX 1	65.4	107	88	102	89	16.2	82.6	
6	Funk G-88	65.0	106	87	101	92	14.2	83.8	
7	K. I. H. 38	65.0	106	77	90	91	13.0	85.0	
8	U. S. 35	64.7	105	87	101	92	12.4	85.5	
9	Midwest 23	64.4	105	85	99	91	13.2	83.9	
10	Kansas 1583	64.3	105	92	107	91	16.3	82.8	
11	Jewett 12	64.3	105	83	97	91	14.5	82.7	
12	Pride of Saline	63.8	104	84	98	96	15.2	81.4	
13	Kansas 2234	63.5	103	92	107	93	14.9	81.8	
14	Funk G-94	63.1	103	88	102	89	12.9	85.1	
15	Pioneer 300	62.8	102	79	92	93	13.0	86.2	
16	Reid Nat'l. 134	62.7	102	91	106	89	13.7	84.1	
17	Mo. King 103	62.0	101	84	98	90	13.2	82.9	
18	McCurdy 124M	61.9	101	92	107	91	12.5	85.0	
19	Iowearth 25A	61.4	100	86	100	89	13.6	84.0	
20	Jewett 6	61.2	100	83	97	87	14.6	82.6	
21	Maygold 39	60.8	99	83	97	93	13.7	84.4	
22	U. S. 13	60.6	99	87	101	92	12.8	84.3	
23	Maygold 49	60.5	99	88	102	91	12.7	85.1	
24	Kellogg's KK-77	59.6	97	82	95	86	13.0	84.6	
25	Maygold 59	59.5	97	88	102	89	12.8	85.3	
26	Midland A	59.0	96	88	102	94	16.3	82.4	
27	McCurdy 123M	56.7	92	91	106	90	12.8	84.4	
	Av. of 27 entries	63.0	103	87	101	91	13.9	83.9	
	Av. of 2 adapted open-pollinated varieties	61.4	100	86	100	95	15.8	81.9	
	<b>Av. of 25 hybrids</b>	<b>63.1</b>	<b>103</b>	<b>87</b>	<b>101</b>	<b>90</b>	<b>13.8</b>	<b>84.0</b>	
<b>FOUR-YEAR AVERAGE, 1941-1942-1943-1944</b>									
1	Kansas 1585	67.3	111	84	111	92	16.2	82.7	†188
2	Reid Midland Hybr.	66.9	110	77	101	90	16.5	82.9	181
3	Iowearth TX 1	65.5	108	80	105	90	17.4	82.6	185
4	Funk G-88	65.2	107	84	111	92	15.8	83.1	172
5	Illinois 200	64.9	107	82	108	89	14.9	83.2	175
6	K. I. H. 38	63.9	105	70	92	91	14.3	84.1	192
7	Reid Nat'l. 134	63.7	105	77	101	90	15.5	83.4	189
8	Pride of Saline	61.9	102	72	95	94	16.5	80.0	182
9	Funk G-94	61.7	102	84	111	90	14.0	84.4	195
10	U. S. 35	61.6	101	80	105	90	14.4	84.7	182
11	Jewett 6	61.5	101	70	92	88	17.0	81.1	169
12	Pioneer 300	61.3	101	74	97	93	14.3	85.3	192
13	McCurdy 124M	60.7	100	84	111	90	13.9	84.5	206
14	U. S. 13	59.9	99	83	109	92	14.0	83.8	201
15	Midland A	59.6	98	80	105	93	17.1	82.2	174
16	Kellogg's KK-77	58.2	96	78	103	86	14.2	83.8	182
17	McCurdy 123M	57.2	94	87	114	90	14.1	84.1	195
	Av. of 17 entries	62.4		79		91	15.3	83.3	186
	Av. of 2 adapted open-pollinated varieties	60.7	100	76	100	94	16.8	81.1	173
	<b>Av. of 15 hybrids</b>	<b>62.6</b>	<b>103</b>	<b>80</b>	<b>105</b>	<b>90</b>	<b>15.1</b>	<b>83.6</b>	<b>187</b>

\*Performance of entry relative to the average of open-pollinated varieties.  
†This column—average three years, 1941-1943-1944.

TABLE 5. RESULTS, CORN PERFORMANCE TEST, DISTRICT 2, EAST-CENTRAL KANSAS (Concluded).

Rank in yield	Hybrid or variety	Acre yield		Erect plants		Stand	Moisture	Shelling	Ears per cwt.
		Actual	Relative*	Actual	Relative*				
FIVE-YEAR AVERAGE, 1940-1941-1942-1943-1944									
		Bu.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	No.
1	Illinois 200	55.3	110	85	110	91	14.6	80.9	249
2	K. I. H. 38	55.0	109	75	97	91	14.0	82.0	239
3	Funk G-88	54.9	109	86	112	92	15.8	79.9	227
4	Reid Nat'l. 134	53.3	106	79	103	89	15.4	80.0	249
5	U. S. 35	53.2	106	82	106	90	13.9	83.8	230
6	Funk G-94	52.8	105	87	113	89	13.9	83.0	252
7	U. S. 13	52.1	103	85	110	92	13.9	83.1	242
8	Kellogg's KK-77	51.1	101	82	106	85	13.9	82.7	227
9	Pride of Saline	51.0	101	74	96	92	16.1	75.0	324
10	Midland A	49.8	99	80	104	92	16.8	80.7	250
Av. of 10 entries		52.8		82		90	14.8	81.1	249
Av. of 2 adapted open-pollinated varieties		50.4	100	77	100	92	16.5	77.8	287
Av. of 8 hybrids		53.4	106	83	108	90	14.4	81.9	239
SIX-YEAR AVERAGE, 1939-1940-1941-1942-1943-1944									
		Bu.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	No.
1	Illinois 200	51.4	112	87	107	86	13.6	80.7	269
2	Funk G-94	50.7	110	89	110	89	13.1	83.3	265
3	U. S. 35	49.4	108	85	105	90	13.0	83.9	271
4	U. S. 13	47.9	104	83	109	92	13.1	82.7	292
5	Kellogg's KK-77	47.6	104	85	105	86	13.3	82.2	266
6	Pride of Saline	46.5	101	78	96	91	14.8	76.0	332
7	Midland A	45.3	99	83	102	90	16.2	80.6	278
Av. of 7 entries		48.4		85		89	13.9	81.4	282
Av. of 2 adapted open-pollinated varieties		45.9	100	81	100	91	15.5	78.3	305
Av. of 5 hybrids		49.4	108	87	107	88	13.2	82.6	273

\*Performance of entry relative to the average of open-pollinated varieties.  
 †This column—average four years, 1940-1941-1943-1944.  
 ‡This column—average for five years, 1939-1940-1941-1943-1944.

TABLE 6. RESULTS, COOPERATIVE TESTS, DISTRICT 2, EASTCENTRAL KANSAS.

Hybrid or variety	1944 13 tests		1943-1944 20 tests		1942-1944 25 tests	
	Yield	Rank	Yield	Rank	Yield	Rank
	Bu.		Bu.		Bu.	
Kansas 2234	62.2	1	63.3	1	.....	.....
Kansas 1585	62.1	2	60.5	2	.....	.....
Hendriks L	59.8	3	59.9	3	.....	.....
Kansas 1583	58.8	4	58.0	4	.....	.....
Funk G-711	58.5	5	.....	.....	.....	.....
Jewett 12	58.1	6	57.4	5	57.7	1
Reid National 134	57.4	7	57.4	5	.....	.....
Illinois 200	57.1	8	56.5	7	57.7	1
Trinoka 7	56.6	9	.....	.....	.....	.....
K. I. H. 38	55.7	10	54.9	9	55.3	3
U. S. 13	54.9	11	55.1	8	54.7	5
Pride of Saline	53.8	12	54.7	10	54.9	4
Midland A	52.6	13	52.9	11	52.8	6
Pioneer 332	52.5	14	.....	.....	.....	.....
Iowearth TX 1	51.0	15	.....	.....	.....	.....
U. S. 35	50.9	16	51.7	12	52.3	7

KANSAS CORN TESTS, 1944

TABLE 7. RESULTS, CORN PERFORMANCE TEST, DISTRICT 3, SOUTH-EASTERN KANSAS.

Rank in yield	Hybrid or variety	Acre yield		Erect plants		Stand	Moisture	Shelling	Ears per cwt.
		Actual	Relative*	Actual	Relative*				
		Bu.	Pct.	Pct.	Pct.				
<b>ONE-YEAR RESULTS, 1944</b>									
1	Jewett 453	88.5	126	98	111	100	17.4	82.2	143
2	Kansas 2275	87.2	124	99	113	100	19.0	83.3	151
3	Iowearth TX 1	85.4	121	92	105	100	23.0	82.7	179
4	Kansas 2299	82.0	117	98	111	100	19.5	82.9	160
5	Kansas 1583	81.5	116	100	114	100	21.3	81.4	155
6	Funk G-131	80.3	115	91	103	100	19.8	81.9	163
7	Kansas 2305	79.8	114	98	111	100	20.0	80.2	139
8	Funk G-80	79.6	113	99	113	100	18.0	84.4	151
9	Kansas 2298	78.4	112	99	113	100	18.5	80.5	132
10	Embro 1001	78.1	111	81	92	100	16.0	83.0	180
11	Hendriks L2	77.5	110	93	106	99	21.5	82.4	169
12	Illinois 200	77.4	110	98	111	100	17.8	84.7	189
13	Edw. Funk 1005	77.1	110	88	100	100	17.9	83.0	166
14	Funk G-150	76.9	109	95	108	100	15.7	82.3	183
15	Funk G-711	76.6	109	89	101	100	23.8	78.0	160
16	Funk G-135	76.3	109	95	108	100	15.8	83.7	164
17	Hendriks L	75.9	108	93	106	100	19.0	81.8	150
Differences in yield of less than 12.6 bushels an acre are not significant in this test.									
18	Kellogg's KK-88	75.7	108	99	113	100	17.3	83.2	172
19	Funk G-88	74.7	106	96	109	100	20.2	82.2	158
20	Funk G-96	74.6	106	99	113	100	16.1	82.7	174
21	Kansas 1781	74.1	105	99	113	100	14.4	85.0	176
22	Jewett 12	74.1	105	90	102	100	18.6	82.7	160
23	Pride of Saline	74.1	105	83	94	100	20.1	79.1	156
24	Kansas 1585	73.8	105	99	113	100	21.6	82.4	143
25	Kansas 16	73.8	105	91	103	100	23.1	78.6	157
26	Funk G-517W	73.7	105	99	113	100	17.8	77.0	154
27	Henry Field 135L	72.5	103	98	111	100	14.9	85.2	175
28	Kansas 1783	72.4	103	99	113	100	15.6	85.5	155
29	Trinoka 7	72.1	103	89	101	100	19.8	79.8	145
30	Funk G-702	71.7	102	96	109	100	23.4	79.6	139
31	Maygold 59	71.6	102	99	113	99	13.6	86.5	169
32	Maygold 39	71.6	102	98	111	99	15.2	86.8	159
33	Reid-Midland hybrid	70.6	100	97	110	100	17.4	82.1	174
34	Kansas 1734	70.5	100	100	114	100	16.3	84.0	182
35	Kansas 2234	70.5	100	97	110	100	21.0	73.3	148
36	Funk G-97	70.3	100	96	109	100	16.3	84.4	182
37	Embro 1325	69.8	99	94	107	100	19.3	82.5	162
38	Funk G-98	69.3	99	99	113	100	15.4	82.9	189
39	Pfister 164	69.2	98	99	113	99	15.8	86.8	180
40	Pfister 1897	69.0	98	98	111	99	14.8	84.5	198
41	U. S. 13	68.7	98	98	111	100	15.6	86.0	180
42	Kellogg's KK-77	68.2	97	99	113	100	16.9	86.4	167
43	McCurdy 123M	68.2	97	94	107	100	14.8	86.3	185
44	Pfister 4897	68.1	97	99	113	97	14.2	85.2	191
45	Midwest 23	67.8	96	96	109	99	16.1	85.0	171
46	Kansas 1732	67.5	96	95	108	100	17.4	83.6	159
47	Pioneer 300	67.5	96	95	108	100	15.3	82.9	188
48	McCurdy 120	67.4	96	98	111	100	15.6	85.7	181
49	Henry Field 135	67.4	96	94	107	100	17.0	84.1	153
50	Reid Nat'l. 134	66.9	95	92	105	99	13.8	86.4	219
51	Midland A	66.4	95	93	106	100	19.7	81.2	143
52	Pioneer 339	66.2	94	98	111	100	15.1	84.4	209
53	Funk G-92	66.2	94	92	105	100	16.2	84.4	192
54	U. S. 35	65.8	94	96	109	99	14.6	85.4	163
55	McCurdy 130M	65.4	93	99	113	100	19.1	82.7	170
56	Funk G-94	64.5	92	98	111	99	15.1	85.3	199
57	Maygold 49	64.2	91	97	110	97	14.7	85.2	198
58	Kellogg's KK-99A	63.9	91	95	108	99	14.6	83.3	214
59	Mo. King 103	63.4	90	96	109	100	15.2	88.9	203

\*Performance of entry relative to the average of open-pollinated varieties.



TABLE 7. RESULTS, CORN PERFORMANCE TEST, DISTRICT 3, SOUTH-EASTERN KANSAS (Continued).

Rank in yield	Hybrid or variety	Acre yield		Erect plants		Stand	Moisture	Shelling	Ears per cwt.
		Actual	Relative*	Actual	Relative*				
		Bu.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	No.
60	K. I. H. 38	62.8	89	91	103	97	14.1	84.6	180
61	Kansas 1517	62.6	89	93	108	88	26.0	79.3	147
62	Pfister 380	62.4	89	99	113	98	15.0	85.0	195
63	Henry Field 135R	62.4	89	94	107	99	15.0	86.4	203
64	Pioneer 332	61.5	83	97	110	99	15.4	85.6	202
65	Embros 1020	61.4	84	99	113	100	17.1	82.0	229
66	Edw. Funk 840	60.1	83	96	109	97	17.5	85.1	182
67	Reid Nat'l. 129	59.5	85	97	110	100	16.8	84.8	164
68	McCurdy 95M	53.7	76	100	114	96	16.8	80.7	279
69	Maygold 50	53.4	76	95	108	99	15.5	83.2	238
Av. of 69 entries		70.7		96		99	17.4	83.3	175
Av. of 2 adapted open-pollinated varieties		70.3	100	88	100	100	19.9	80.2	150
<b>Av. of 67 hybrids</b>		<b>70.8</b>	<b>101</b>	<b>97</b>	<b>110</b>	<b>99</b>	<b>17.3</b>	<b>83.3</b>	<b>175</b>
<b>TWO-YEAR AVERAGE, 1942 and 1944</b>									
1	Iowearth TX 1	64.2	114	94	104	86	21.2	81.6	
2	Funk G-88	63.4	113	97	108	93	20.0	81.7	
3	Kansas 1583	63.2	112	98	109	91	20.3	81.3	
4	Illinois 200	62.7	111	97	108	93	16.7	84.5	
5	Funk G-135	62.0	110	96	107	91	17.1	82.9	
6	Funk G-150	61.5	109	96	107	91	16.1	82.5	
7	Funk G-80	61.2	108	99	110	90	17.0	83.8	
8	Kansas 2234	61.1	108	98	109	93	20.1	75.0	
9	Kansas 1585	60.5	107	99	110	90	20.7	81.3	
10	Jewett 12	59.6	106	86	96	89	17.7	82.5	
11	Pride of Saline	58.5	104	86	96	89	19.4	78.8	
12	Reid-Midland hybrid	56.8	101	96	107	89	19.0	80.2	
13	U. S. 13	55.2	98	94	104	92	15.4	85.3	
14	McCurdy 123M	55.0	97	95	106	93	15.3	85.3	
15	U. S. 35	54.4	96	95	106	90	15.0	84.7	
16	Midland A	54.4	96	95	106	88	19.7	81.2	
17	Pioneer 300	53.1	94	96	107	90	15.2	84.0	
18	K. I. H. 38	51.9	92	88	98	88	14.7	84.7	
19	Mo. King 103	51.1	90	98	109	89	15.7	85.4	
20	Pioneer 332	51.1	91	97	108	89	15.4	85.6	
Av. of 20 entries		58.0		95		90	17.6	82.6	
Av. of 2 adapted open-pollinated varieties		56.5	100	90	100	89	19.6	80.0	
<b>Av. of 18 hybrids</b>		<b>58.2</b>	<b>103</b>	<b>96</b>	<b>107</b>	<b>90</b>	<b>17.4</b>	<b>82.9</b>	
<b>THREE-YEAR AVERAGE, 1941-1942 and 1944</b>									
1	Iowearth TX 1	49.6	113	76	100	80	19.9	81.7	†248
2	Jewett 12	48.6	110	70	92	81	18.3	81.5	190
3	Funk G-88	48.5	110	85	112	84	19.9	81.0	224
4	Funk G-150	48.2	110	83	109	85	17.0	81.2	247
5	Illinois 200	47.9	109	84	111	85	16.9	82.6	256
6	Funk G-135	47.8	109	84	111	83	17.6	82.3	238
7	Kansas 1585	46.7	106	80	105	80	19.8	81.2	211
8	McCurdy 123M	44.8	102	87	115	87	15.6	84.1	240
9	Pride of Saline	44.5	101	70	92	81	19.3	77.6	232
10	Reid-Midland hybrid	44.1	100	80	105	84	18.9	79.8	248
11	U. S. 13	43.9	100	90	118	87	15.6	83.6	258
12	Midland A	43.6	99	82	108	82	19.4	81.0	206
13	U. S. 35	41.9	95	87	115	83	15.8	83.5	268
14	Pioneer 300	41.1	93	90	118	83	16.3	82.3	232
15	K. I. H. 38	41.1	93	77	101	80	15.2	83.8	264
16	Pioneer 332	31.5	71	91	120	83	15.6	84.3	254
Av. of 16 entries		45.2		82		83	17.6	82.0	242
Av. of 2 adapted open-pollinated varieties		44.1	100	76	100	82	19.3	79.3	219
<b>Av. of 14 hybrids</b>		<b>45.4</b>	<b>103</b>	<b>83</b>	<b>109</b>	<b>83</b>	<b>17.3</b>	<b>82.4</b>	<b>245</b>

\*Performance of entry relative to the average of open-pollinated varieties.  
†This column—average 2-years, 1941 and 1944.

KANSAS CORN TESTS, 1944

TABLE 7. RESULTS, CORN PERFORMANCE TEST, DISTRICT 3, SOUTH-EASTERN KANSAS (Concluded).

Rank in yield	Hybrid or variety	Acre yield		Erect plants		Stand	Moisture	Shelling	Burs per cwt.
		Actual	Relative*	Actual	Relative*				
		Bu.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	No.
<b>FOUR-YEAR AVERAGE, 1940-1941-1942 and 1944</b>									
1	Funk G-88	47.1	111	88	111	86	18.1	81.9	†253
2	Illinois 200	45.9	109	87	110	83	18.8	82.3	258
3	Funk G-135	45.5	108	85	108	83	18.4	81.6	264
4	U. S. 13	43.4	108	91	115	83	15.0	83.7	268
5	Pride of Saline	42.9	101	73	92	81	17.7	83.1	282
6	U. S. 35	42.8	101	89	113	82	15.0	83.2	284
7	Midland A	41.7	99	84	106	82	17.8	81.3	332
8	Pioneer 332	40.6	96	93	118	83	14.9	83.8	270
	Av. of 8 entries	43.7		86		83	16.4	81.9	263
	Av. of 2 adapted open-pollinated varieties	42.3	100	79	100	82	17.8	79.7	242
	<b>Av. of 6 hybrids</b>	<b>44.2</b>	<b>105</b>	<b>89</b>	<b>113</b>	<b>84</b>	<b>15.9</b>	<b>82.7</b>	<b>269</b>

\*Performance of entry relative to the average of open-pollinated varieties.  
†This column—average 3-years, 1940-1941 and 1944.

TABLE 8. RESULTS, COOPERATIVE TESTS, DISTRICT 3, SOUTHEASTERN KANSAS.

Hybrid or variety	1944 5 tests		1943-1944 9 tests		1941-1944 23 tests	
	Yield	Rank	Yield	Rank	Yield	Rank
	Bu.		Bu.		Bu.	
Kansas 2234	46.5	1	45.6	1	.....	....
Kansas 1585	43.8	2	41.8	2	.....	....
Trinoka 7	43.6	3	.....	.....	.....	....
Kansas 1583	42.2	4	41.5	3	.....	....
Midland A	41.3	5	39.4	6	.....	....
Illinois 200	41.3	5	40.3	5	38.6	2
Hendriks L	41.1	7	40.6	4	39.8	1
Funk G-711	40.2	8	.....	.....	.....	....
Reid Midland hybrid	40.0	9	37.7	7	.....	....
K. I. H. 38	39.4	10	39.4	6	37.2	3
Jewett 12	38.4	11	.....	.....	.....	....
Pride of Saline	37.8	12	36.2	10	37.1	4
U. S. 35	37.7	13	37.5	9	33.7	6
U. S. 13	37.4	14	37.7	7	35.6	5
Pioneer 300	35.5	15	.....	.....	.....	....
Iowalth TX 1	34.8	16	.....	.....	.....	....

TABLE 9. RESULTS, BELLEVILLE EXPERIMENT FIELD, DISTRICT 4, NORTHCENTRAL KANSAS.

Rank in yield	Hybrid or variety	Acre yield		Erect plants		Stand	Height		Moisture
		Actual	Relative*	Actual	Relative*		Plant	Ear	
		Bu.	Pct.	Pct.	Pct.		Pct.	Ft.	
<b>ONE-YEAR RESULTS, 1944</b>									
1	Kansas 2234	77.8	147	99	138	100	8.5	40	19.6
2	Kansas 16	74.7	141	81	113	99	8.2	46	21.0
3	Kansas 1639	74.6	141	100	139	96	8.7	40	16.1
4	Embro 1325	73.4	139	86	133	99	9.2	48	17.9
5	Kansas 2298	73.1	138	95	132	98	9.2	44	18.2
6	Kansas 2232	73.1	138	89	124	100	8.7	42	18.3
7	Kansas 1648	72.3	137	90	125	95	8.8	46	18.4
8	Kansas 1583	72.0	136	97	135	98	8.8	46	18.3
9	Kansas 2299	71.4	135	91	126	96	8.7	38	17.9
10	Funk G-88	70.9	134	88	122	96	9.5	48	19.9
11	Kansas 15	70.7	134	91	126	97	8.8	40	17.1
12	Kansas 2275	70.1	133	96	133	99	8.8	40	16.5
13	Kansas 1582	69.7	132	80	111	96	8.7	44	20.2
14	Kansas 1517	69.5	132	90	125	98	9.0	48	21.4
15	Reid Nat'l. 129	68.4	130	87	121	100	9.0	38	17.3
16	Funk G-711	68.3	129	90	125	100	9.0	46	25.5
17	Kansas 1679	68.0	129	83	115	96	8.5	36	18.9
Differences in yield of less than 9.9 bushels an acre are not significant in this test.									
18	Kansas 2805	67.8	128	94	131	98	8.8	44	17.2
19	Jewett 6	67.7	128	66	92	99	8.8	44	18.2
20	Jewett 453	67.2	127	92	128	98	9.0	39	19.4
21	Kansas 1585	66.8	127	90	125	99	9.2	46	19.9
22	Funk G-80	66.6	126	97	135	100	8.7	42	17.0
23	Jewett 12	66.1	125	72	100	98	8.8	46	17.9
24	Hyline M	65.5	124	99	138	98	9.0	42	16.5
25	Kansas 1782	65.5	124	90	125	97	9.0	42	15.8
26	Iowearth 25	65.4	124	91	126	99	9.2	42	17.2
27	Kansas 1643	65.2	123	92	128	93	8.7	44	17.7
28	Cornhusker 30	64.9	123	92	128	99	8.8	44	17.6
29	Kansas 1783	64.7	123	100	139	95	9.0	40	17.4
30	Mo. King 103	64.5	122	86	119	100	8.7	38	16.9
31	Kansas 1597	64.4	122	92	128	94	9.3	46	22.7
32	Funk G-150	63.4	120	79	110	98	8.7	46	18.0
33	K. I. H. 38	63.1	120	87	121	99	8.7	40	17.9
34	Embro 1001	62.5	118	81	113	99	9.0	46	18.0
35	Cornhusker 40	62.2	118	87	121	99	8.7	38	18.3
36	Pioneer 300	62.2	118	84	117	97	8.7	38	16.2
37	Maygold 59	61.9	117	86	119	96	8.7	42	16.1
38	Henry Field 135	61.8	117	88	122	97	9.3	48	18.3
39	Pioneer 339	61.8	117	82	114	98	8.5	38	15.3
40	Iowearth 25A	61.6	117	94	131	97	8.8	40	16.8
41	Pioneer 332	61.5	116	91	126	100	8.7	42	17.1
42	Pfister 164	61.5	116	91	126	98	8.5	36	16.9
43	Illinois 200	61.5	116	90	125	97	9.0	42	17.3
44	Kellogg's KK-88	61.4	116	87	121	99	9.0	42	16.8
45	Iowearth 29A	60.7	115	95	132	98	8.8	38	17.0
46	Reid Nat'l. 130W	60.3	114	96	133	100	9.0	42	18.1
47	Kansas 1516	60.3	114	85	118	98	9.2	48	21.9
48	Midland A	60.0	114	74	109	95	8.7	42	18.3
49	Kellogg's KK-77	59.8	113	90	125	96	8.7	36	16.0
50	McCurdy 117M	59.6	113	84	117	94	8.5	38	15.3
51	Kansas 1104	59.2	112	85	118	93	8.2	36	19.1
52	Maygold 39	59.2	112	83	115	98	9.0	40	16.8
53	Kansas 1781	59.0	112	90	125	98	8.3	38	15.5
54	Kansas 11	58.9	112	96	133	97	8.0	36	18.0
55	Midwest 23	58.8	111	80	111	96	8.7	40	17.0
56	U. S. 35	58.6	111	84	117	100	8.3	36	16.2
57	Kansas 1659	58.5	111	97	135	98	8.5	40	16.0
58	Hyline M-1	58.2	110	94	131	99	8.8	40	17.6
59	Kansas 1784	58.0	110	95	132	98	8.5	36	15.6
60	Pfister 1897	57.5	109	83	115	94	8.5	36	16.1

\*Performance of entry relative to the average of open-pollinated varieties.

KANSAS CORN TESTS, 1944

TABLE 9. RESULTS, BELLEVILLE EXPERIMENT FIELD, DISTRICT 4, NORTHCENTRAL KANSAS (Continued).

Rank in yield	Hybrid or variety	Acre yield		Erect plants		Stand	Height		Moisture
		Actual	Relative*	Actual	Relative*		Plant	Ear	
		Bu.	Pct.	Pct.	Pct.	Pct.	Ft.	In.	Pct.
61	Kansas 2216	57.2	108	86	119	99	8.5	40	19.3
62	Hyline M-2	57.1	108	85	118	98	8.5	36	16.2
63	Kansas 1617	57.1	108	68	94	94	8.7	42	17.8
64	Pfister 4897	57.0	108	96	133	98	8.7	36	16.6
65	Embro 1020	56.4	107	92	128	93	8.2	34	16.2
66	Reid Yellow Dent	56.4	107	71	99	97	9.2	44	18.1
67	Reid Nat'l. 127	56.2	106	95	132	97	8.5	38	17.0
68	Kellogg's KK-99A	56.2	106	86	119	97	8.8	44	16.5
69	Henry Field 904	56.2	106	81	113	98	8.7	36	16.0
70	McCurdy 118M	55.5	105	85	118	96	8.3	38	16.3
71	Edw. Funk 840	55.1	104	91	126	100	8.5	38	16.9
72	Henry Field 129-1	54.0	102	89	124	96	8.5	36	15.2
73	U. S. 13	53.9	102	88	122	96	8.7	36	15.8
74	Pride of Saline	53.0	100	72	100	93	8.5	42	18.3
75	Cornhusker 123	51.7	98	94	131	97	8.8	42	16.8
76	McCurdy 112M	50.2	95	81	113	97	8.2	32	15.8
77	Maygold 49	49.8	94	89	124	98	8.7	34	16.8
78	Pfister 380	48.0	91	96	133	97	8.3	34	16.3
79	Maygold 50	45.9	87	83	115	96	8.0	36	16.9
80	Hays Golden	41.7	79	72	100	88	7.2	34	17.1
81	Reid Nat'l. 134	38.0	72	54	75	95	8.0	34	14.5
	Av. 81 entries	61.7		88		97	8.7	40	17.6
	Av. of 4 open-pollinated varieties	52.8	100	72	100	93	8.4	40	18.0
	<b>Av. of 77 hybrids</b>	<b>62.2</b>	<b>118</b>	<b>88</b>	<b>122</b>	<b>97</b>	<b>8.7</b>	<b>40</b>	<b>17.5</b>
<b>TWO-YEAR AVERAGE, 1943-1944</b>									
1	Kansas 16	56.4	144	73	103	99	8.5	44	20.3
2	Kansas 1639	56.0	142	95	134	96	8.2	39	17.6
3	Kansas 2275	53.8	137	81	114	98	8.1	41	18.4
4	Kansas 2284	53.7	137	85	120	98	7.9	40	20.3
5	Kansas 1597	52.5	134	84	118	97	8.3	44	24.5
6	Kansas 1679	52.4	133	76	107	93	7.9	36	18.0
7	Kansas 1648	52.4	133	83	117	93	8.0	42	18.2
8	Kansas 2282	52.2	133	83	117	100	8.3	42	20.0
9	Kansas 1583	52.1	133	88	124	95	8.3	45	23.3
10	Funk G-88	51.9	132	78	110	95	8.4	42	18.9
11	Jewett 12	51.1	130	68	96	99	8.2	44	19.0
12	Mo. King 103	49.9	127	88	124	100	7.9	35	17.5
13	Pioneer 300	49.6	126	77	108	95	8.1	39	16.1
14	Illinois 200	49.6	126	86	121	98	8.4	43	18.3
15	Funk G-80	49.3	125	81	114	94	8.0	41	17.0
16	Kansas 1585	48.7	124	81	114	93	8.4	44	21.1
17	K. I. H. 98	48.5	123	81	114	99	8.0	42	16.2
18	Kansas 15	48.4	123	85	120	98	8.1	40	17.4
19	Kansas 1582	48.2	123	85	120	92	8.1	42	23.6
20	Kansas 1617	47.2	120	75	106	96	8.2	41	17.7
21	Kellogg's KK-77	46.8	119	84	118	97	8.2	38	16.0
22	U. S. 13	46.8	119	83	117	97	8.1	36	15.3
23	Kansas 1643	46.4	118	84	118	93	8.0	42	19.4
24	Kansas 11	46.2	118	86	121	92	7.5	36	18.4
25	Kansas 1659	45.7	116	96	135	91	7.9	40	15.0
26	Kansas 1516	45.0	115	78	110	92	8.9	44	24.4
27	Kansas 2216	44.9	114	87	123	92	7.8	40	22.5
28	Kansas 1104	44.9	114	89	125	85	7.7	36	20.4
29	Midland A	44.1	112	73	103	93	8.0	40	19.9
30	U. S. 35	43.9	112	79	111	97	7.8	38	16.0
31	Pride of Saline	38.8	99	70	99	92	7.9	41	20.6
32	Hays Golden	35.0	89	70	99	92	6.9	32	15.9
33	Reid Nat'l. 134	33.9	86	65	92	97	8.1	40	19.1
	Av. of 33 entries	48.2		81		95	8.1	41	19.0
	Av. of 3 adapted open-pollinated varieties	39.3	100	71	100	92	7.6	38	18.8
	<b>Av. of 30 hybrids</b>	<b>48.9</b>	<b>124</b>	<b>82</b>	<b>115</b>	<b>95</b>	<b>8.1</b>	<b>41</b>	<b>19.0</b>

\*Performance of entry relative to the average of open-pollinated varieties.

TABLE 9. RESULTS, BELLEVILLE EXPERIMENT FIELD, DISTRICT 4, NORTHCENTRAL KANSAS (Concluded).

Rank in yield	Hybrid or variety	Acre yield		Erect plants		Stand	Height		Moisture
		Actual	Relative*	Actual	Relative*		Plant	Ear	
<b>THREE-YEAR AVERAGE, 1942-1943-1944</b>									
1	Kansas 16	55.0	149	78	107	97	8.1	41	21.5
2	Kansas 1648	54.3	147	89	122	95	7.7	39	18.7
3	Kansas 1639	54.2	146	95	130	97	7.9	35	18.7
4	Kansas 2234	54.2	146	90	123	98	7.6	38	21.7
5	Kansas 2232	51.3	139	87	119	93	7.3	38	22.2
6	Funk G-88	51.0	138	85	116	95	8.2	40	20.9
7	Jewett 12	50.2	136	71	97	93	7.7	42	19.8
8	Kansas 1582	50.0	135	88	121	94	7.8	40	24.0
9	Kansas 15	48.7	132	88	121	97	7.6	37	19.6
10	Illinois 200	48.3	131	86	118	98	8.0	39	19.5
11	Kansas 1643	47.9	129	88	121	95	7.8	39	20.4
12	Kansas 1516	47.6	129	84	115	93	8.0	42	25.1
13	Kansas 1104	46.8	126	91	125	89	7.6	34	21.3
14	Kansas 2216	46.5	126	88	121	94	7.5	37	23.4
15	K. I. H. 38	45.6	123	80	110	99	7.8	39	17.6
16	Kansas 11	45.4	123	86	118	93	7.3	33	19.2
17	Pioneer 300	45.2	122	79	108	95	7.8	36	17.6
18	Kellogg's KK-77	44.8	121	84	115	97	7.9	36	15.5
19	U. S. 13	44.8	121	84	115	98	7.8	36	16.8
20	U. S. 35	42.5	115	83	114	96	7.5	35	16.4
21	Pride of Saline	38.4	104	74	101	91	7.8	39	22.3
22	Hays Golden	35.6	96	71	97	83	6.7	29	17.7
Av. of 22 entries		47.7		84		96	7.7	36	20.0
Av. of 2 adapted open-pollinated varieties		37.0	100	73	100	92	7.2	34	20.0
<b>Av. of 20 hybrids</b>		<b>48.7</b>	<b>132</b>	<b>85</b>	<b>116</b>	<b>96</b>	<b>7.8</b>	<b>36</b>	<b>20.0</b>

\*Performance of entry relative to the average of open-pollinated varieties.

TABLE 10. RESULTS, COOPERATIVE TESTS, DISTRICT 4, NORTHCENTRAL KANSAS.

Hybrid or variety	1944 7 tests		1943-1944 14 tests		1942-1944 20 tests	
	Yield	Rank	Yield	Rank	Yield	Rank
	Bu.		Bu.		Bu.	
Kansas 2234	72.9	1	64.5	1	.....	....
Kansas 1585	67.6	2	59.9	2	.....	....
Illinois 200	66.5	3	58.2	3	56.0	1
Funk G-80	66.5	3	58.3	3	.....	....
Kansas 1533	65.1	5	58.8	3	.....	....
Pride of Saline	64.6	6	57.7	6	55.6	2
K. I. H. 38	62.7	7	55.9	8	54.2	3
U. S. 13	61.0	8	56.5	7	53.8	4
U. S. 35	60.0	9	52.9	9	50.2	5
Steckley 790	60.0	10	.....	....	.....	....
Kansas 11	58.1	11	.....	....	.....	....
Midland A	55.8	12	49.5	10	49.6	6
Hays Golden	53.5	13	46.3	11	48.2	7
Colby Yellow Cap	41.0	14	37.1	12	34.6	8

KANSAS CORN TESTS, 1944

TABLE 11. RESULTS, WICHITA EXPERIMENT FIELD, DISTRICT 5, SOUTHCENTRAL KANSAS.

Rank in yield	Hybrid or variety	Acre yield		Erect plants		Stand	Dropped ears
		Actual	Relative*	Actual	Relative*		
<b>ONE-YEAR RESULTS, 1944</b>							
		Bu.	Pct.	Pct.	Pct.	Pct.	Pct.
1	Funk G-711	56.3	135	94	129	99	2
	Kansas 1585	52.3	125	88	121	96	3
	Jewett 12	52.3	125	71	97	99	7
	lowealth TX 1	51.5	124	86	118	99	7
	Kansas 1777	50.9	122	92	126	95	2
	Kansas 1583	50.9	122	90	123	96	3
	Hendriks L2	50.9	122	78	107	97	8
	Kansas 1648	50.7	122	89	122	96	7
	Kansas 1517	50.7	122	81	111	97	2
10	Kansas 16	50.7	122	73	100	99	10
11	Kansas 2234	50.6	122	88	121	98	2
Differences in yield of less than 5.7 bushels an acre are not significant in this test.							
12	Kansas 2298	50.4	121	89	122	96	3
13	Kansas 2290	49.5	119	97	133	99	3
14	Pride of Saline	48.1	115	76	104	98	4
15	Hendriks L	47.5	114	70	96	96	5
16	Trinoka 7	46.8	112	78	107	96	4
17	Kansas 2303	46.4	111	87	119	97	4
18	Kansas 2275	46.2	111	91	125	99	3
19	Kansas 2305	46.1	111	89	122	96	5
20	Kansas 1783	45.8	110	86	118	98	4
21	Kansas 2299	45.5	109	91	125	96	7
22	Reid Midland hybrid	45.5	109	81	111	99	2
23	Pfister 164	45.3	109	90	123	97	4
24	Kansas 2063	45.3	109	75	103	91	6
25	Kansas 2306	45.1	108	94	129	99	3
26	Kansas 2292	45.0	108	94	129	99	6
27	Kansas 1781	43.8	105	96	132	98	3
28	Kansas 17	43.3	104	88	121	99	3
29	Kansas 11	43.3	104	87	119	96	4
30	Kansas 1784	43.0	103	90	123	99	4
31	Pioneer 300	42.7	102	95	130	99	2
32	Kansas 1782	42.5	102	93	127	97	3
33	Illinois 200	42.5	102	90	123	99	7
34	Midland A	42.4	102	69	95	90	4
35	K. I. H. 38	41.9	100	83	114	99	7
36	U. S. 13	41.6	100	91	125	96	9
37	Pfister 380	41.3	99	94	129	94	1
38	Kansas 2304	40.8	98	98	134	98	7
39	Kansas 1588	40.8	98	88	121	81	2
40	Pfister 1897	40.7	98	81	111	97	2
41	U. S. 35	40.0	96	91	125	89	3
42	Pfister 4897	37.7	90	96	132	97	1
43	Hays Golden	34.5	83	75	103	93	0
Av. of 43 entries		45.8		87		96	
Av. of 3 adapted open-pollinated varieties		41.7	100	73	100	94	3
Av. of 40 hybrids		46.1	111	88	121	97	5
<b>TWO-YEAR AVERAGE, 1943-1944</b>							
1	Jewett 12	39.3	122	60	103		
2	Kansas 2234	39.2	122	78	134		
3	Kansas 16	38.9	121	56	97		
4	Kansas 17	38.5	120	73	126		
5	Kansas 2275	36.2	112	71	122		
6	Hendriks L	36.2	112	60	103		
7	Kansas 11	36.1	112	75	129		
8	Kansas 1585	35.8	111	58	100		
9	U. S. 13	35.1	109	87	150		

\*Performance of entry relative to the average of open-pollinated varieties.

TABLE 11. RESULTS, WICHITA EXPERIMENT FIELD, DISTRICT 5, SOUTHCENTRAL KANSAS (Concluded).

Rank in yield	Hybrid or variety	Acre yield		Erect plants		Stand Pct.	Dropped ears Pct.
		Actual Bu.	Relative* Pct.	Actual Pct.	Relative* Pct.		
10	Pride of Saline	35.0	109	65	112		
11	U. S. 35	34.8	108	85	147		
12	Kansas 1533	34.5	107	54	93		
13	Illinois 200	34.3	107	83	143		
14	K. I. H. 38	34.2	106	86	148		
15	Kansas 2292	33.4	104	71	122		
16	Hays Golden	31.1	97	60	103		
17	Midland A	30.5	95	50	86		
	Av. of 17 entries	35.5		69			
	Av. of 3 adapted open-pollinated varieties	32.2	100	58	100		
	<b>Av. of 14 hybrids</b>	<b>36.2</b>	<b>112</b>	<b>71</b>	<b>122</b>		
<b>THREE-YEAR AVERAGE, 1942-1943-1944</b>							
1	Kansas 16	36.4	122	64	100	†97	
2	Kansas 2234	36.2	121	84	131	95	
3	Kansas 17	35.0	117	79	123	97	
4	Kansas 11	33.2	111	78	122	95	
5	Kansas 1535	33.1	111	70	109	92	
6	U. S. 13	31.2	104	84	131	96	
7	U. S. 35	30.9	103	81	127	92	
8	Pride of Saline	30.4	102	68	106	96	
9	Illinois 200	30.1	101	85	133	98	
10	Midland A	30.1	101	61	95	90	
11	Hays Golden	29.1	97	62	97	93	
	Av. of 11 entries	32.3		74		95	
	Av. of 3 adapted open-pollinated varieties	29.9	100	64	100	93	
	<b>Av. of 8 hybrids</b>	<b>33.3</b>	<b>111</b>	<b>78</b>	<b>122</b>	<b>95</b>	
<b>FOUR-YEAR AVERAGE, 1941-1942-1943-1944</b>							
1	Kansas 17	35.4	117	73	116	†97	
2	Kansas 11	33.1	109	75	119	96	
3	U. S. 13	31.9	105	80	127	97	
4	U. S. 35	31.9	105	80	127	94	
5	Illinois 200	31.2	103	78	124	98	
6	Pride of Saline	30.9	102	65	103	97	
7	Midland A	30.6	101	65	103	93	
8	Hays Golden	29.3	97	60	95	95	
	Av. of 8 entries	31.8		72		96	
	Av. of 3 adapted open-pollinated varieties	30.3	100	63	100	95	
	<b>Av. of 5 hybrids</b>	<b>32.7</b>	<b>108</b>	<b>77</b>	<b>122</b>	<b>96</b>	

\*Performance of entry relative to the average of open-pollinated varieties.

†This column—average two years, 1942-1944.

‡This column—average three years, 1941-1942-1944.

KANSAS CORN TESTS, 1944

TABLE 12. RESULTS, COOPERATIVE TESTS, DISTRICT 5, SOUTH-CENTRAL KANSAS.

Hybrid or variety	1944 7 tests		1943-1944 10 tests		1941-1944 17 tests	
	Yield	Rank	Yield	Rank	Yield	Rank
	Bu.		Bu.		Bu.	
Kansas 2234	45.4	1	45.1	1	.....	....
Kansas 1585	44.8	2	42.8	3	.....	....
Kansas 1583	44.8	2	44.4	2	.....	....
Hendriks L	41.6	4	41.8	4	.....	....
Funk G-711	41.5	5	.....	.....	.....	....
Trinoka 7	38.5	6	.....	.....	.....	....
Midland A	37.3	7	37.1	9	41.6	2
Pride of Saline	36.8	8	38.0	5	41.7	1
U. S. 13	36.6	9	37.5	6	41.0	3
Illinois 200	36.5	10	37.2	8	40.8	4
K. I. H. 38	36.3	11	37.5	6	.....	....
Hays Golden	34.8	12	32.4	11	33.7	6
U. S. 35	34.0	13	35.1	10	33.2	5



TABLE 13. RESULTS, SMITH CENTER EXPERIMENT FIELD, DISTRICT 6, NORTHWESTERN KANSAS.

Rank in yield	Hybrid or variety	Acre yield		Erect plants		Stand	Moisture	Height	
		Actual	Rela-tive*	Actual	Rela-tive*			Plant	Ear
<b>ONE-YEAR RESULTS, 1944</b>									
1	Kansas 1639	52.2	132	100	110	100	16.1	7.8	32
2	Funk G-88	48.4	120	95	104	99	19.0	8.3	45
3	Pfister 164	48.2	120	100	110	99	16.3	7.7	32
4	Kansas 17	48.0	119	92	101	99	18.6	7.7	36
5	Kansas 2225	46.8	116	98	105	91	18.1	8.0	37
6	Funk G-711	46.3	115	92	101	100	19.0	8.2	42
7	Funk G-97	46.2	115	94	103	97	19.4	8.3	46
8	Kansas 4	46.1	114	93	102	96	16.5	7.5	34
9	Pfister 380	45.9	114	100	110	99	15.3	7.8	34
10	Kansas 1583	45.6	113	100	110	99	18.2	8.0	45
11	Kansas 1104	45.3	112	99	109	96	17.1	7.3	36
Difference in yield of less than 8.0 bushels an acre are not significant in this test.									
12	Kansas 2275	45.1	112	100	110	97	17.4	7.3	32
13	Kansas 1659	45.0	112	99	109	100	14.8	8.0	37
14	Kansas 1589	45.0	112	97	107	100	18.0	8.3	44
15	Kansas 5	44.7	111	94	103	100	18.9	7.7	39
16	Kansas 1643	44.7	111	99	109	97	16.8	7.7	37
17	Kansas 3	44.6	111	91	100	99	19.0	7.8	37
18	Kansas 11	44.4	110	100	110	98	16.9	7.8	36
19	Pride of Saline	44.2	110	93	102	97	18.6	8.0	40
20	Kansas 1718	44.1	109	98	108	96	17.3	7.7	34
21	Reid Nat'l. 127	44.0	109	100	110	99	16.2	8.2	38
22	Kansas 2234	44.0	109	97	107	100	18.3	7.5	34
23	Kansas 2216	43.8	109	100	110	94	18.3	7.8	38
24	Pioneer 332	43.3	107	98	108	100	18.4	8.2	37
25	Pioneer 300	43.2	107	100	110	98	16.8	8.0	34
26	Kansas 1582	43.2	107	95	104	95	18.3	8.2	43
27	Illinois 200	43.0	107	99	109	98	16.5	8.2	37
28	U. S. 35	42.1	104	99	109	97	16.1	7.7	32
29	Kansas 16	42.1	104	95	104	99	19.9	8.2	40
30	K. I. H. 38	41.1	102	99	109	98	16.5	8.3	40
31	U. S. 13	41.0	102	99	109	92	16.2	8.2	36
32	Kansas 1585	39.5	98	99	109	97	17.1	7.8	40
33	Kansas 1648	39.2	97	99	109	94	17.6	7.8	38
34	Kansas 1516	39.2	97	87	96	74	20.1	7.8	42
35	Cornhusker 123	38.7	96	98	108	97	16.2	8.2	40
36	Hays Golden	38.5	96	90	99	94	16.5	7.0	30
37	Kansas 1715	38.3	95	100	110	96	17.2	6.8	30
38	Midland A	38.3	95	90	99	97	19.2	7.8	37
39	Kansas 2242	38.1	95	100	110	95	20.4	7.2	32
40	Kansas 1614	35.9	89	100	110	98	18.5	8.0	40
Av. of 40 entries		43.5		97		97	17.7	7.8	37
Av. of 3 adapted open-pollinated varieties		40.3	100	91	100	96	18.1	7.6	36
<b>Av. of 37 hybrids</b>		<b>43.7</b>	<b>108</b>	<b>97</b>	<b>107</b>	<b>97</b>	<b>17.6</b>	<b>7.9</b>	<b>38</b>
<b>TWO-YEAR AVERAGE, 1942 and 1944</b>									
1	Kansas 1639	48.8	128	100	105	100	18.2	7.2	31
2	Kansas 2234	44.5	117	99	104	100	20.3	6.9	34
3	Kansas 1643	43.7	115	99	104	98	18.6	7.4	37
4	Kansas 17	43.1	113	93	98	98	16.6	8.0	33
5	Kansas 2216	42.9	113	99	104	97	22.4	7.0	35
6	Kansas 1104	42.1	111	99	104	97	21.2	6.8	33
7	U. S. 35	41.6	109	99	104	98	18.9	7.3	31
8	U. S. 13	40.8	107	99	104	94	17.4	7.6	35
9	Illinois 200	40.5	107	99	104	89	19.3	6.5	36
10	Pride of Saline	40.1	106	97	102	97	21.6	7.4	38
11	Kansas 11	39.5	104	99	104	98	20.0	7.0	32
12	K. I. H. 38	38.9	102	98	103	99	18.5	7.6	36
13	Kansas 1614	37.5	99	100	105	99	21.5	7.4	38
14	Hays Golden	36.0	95	93	98	96	19.0	6.2	26
Av. of 14 entries		41.4		98		98	19.5	7.2	34
Av. of 2 adapted open-pollinated varieties		38.0	100	95	100	97	20.3	6.8	32
<b>Av. of 12 hybrids</b>		<b>42.0</b>	<b>111</b>	<b>99</b>	<b>104</b>	<b>98</b>	<b>19.4</b>	<b>7.3</b>	<b>34</b>

\*Performance of entry relative to the average of open-pollinated varieties.

TABLE 14. RESULTS, COOPERATIVE TESTS, DISTRICT 6, NORTHWESTERN KANSAS.

Hybrid or variety	1944 7 tests		1943-1944 14 tests		1942-1944 17 tests	
	Yield	Rank	Yield	Rank	Yield	Rank
	Bu.		Bu.		Bu.	
Kansas 2234	57.3	1	53.3	1	.....	....
Kansas 1533	55.6	2	47.3	2	.....	....
Kansas 1535	51.4	3	.....	....	.....	....
Pride of Saline	51.0	4	46.0	4	46.9	1
K. I. H. 38	50.7	5	45.7	5	45.9	2
Kansas 11	49.5	6	.....	....	.....	....
U. S. 13	49.0	7	46.1	3	44.5	4
Illinois 200	48.6	8	45.7	5	44.9	3
U. S. 35	45.0	9	42.1	7	42.1	5
Hays Golden	44.9	10	41.6	8	40.7	6
Funk G-97	42.9	11	.....	....	.....	....
Colby Yellow Cap	34.7	12	33.3	9	33.4	7